QUEENSLAND.

REPORT AND RECOMMENDATIONS

FOLLOWING ON

AN ECONOMIC INVESTIGATION

BY

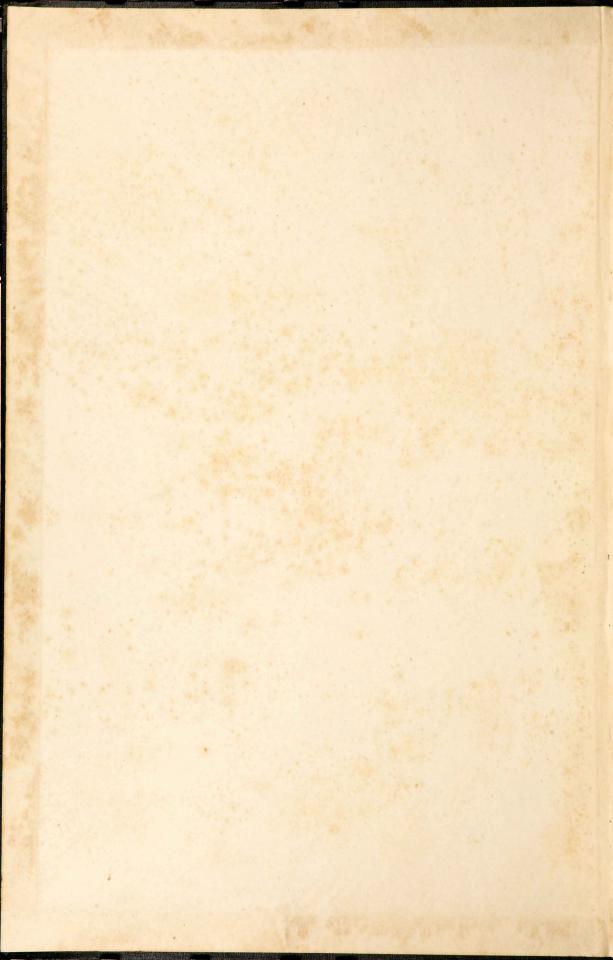
THE LAND ADMINISTRATION BOARD

OF THE

UPPER BURNETT AND CALLIDE VALLEY LANDS

AND OF THE

OPERATIONS OF "THE UPPER BURNETT AND CALLIDE LAND SETTLEMENT ACT OF 1923."



1929. —— QUEENSLAND. Ly assemble 11624

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PRESENTED TO PARLIAMENT BY COMMAND.

BRISBANE:

BY AUTHORITY: ANTHONY JAMES CUMMING, GOVERNMENT PRINTER,

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#### REPORT AND RECOMMENDATIONS ON THE UPPER BURNETT AND CALLIDE VALLEY LANDS.

Being a Report and Recommendations by the Land Administration Board following on an Economic Investigation made by the Board of the Upper Burnett and Callide Valley Land Settlement Scheme, and of the Operations of "The Upper Burnett and Callide Land Settlement Act of 1923."

TO THE HONOURABLE THE SECRETARY FOR PUBLIC LANDS.

Office of the Land Administration Board, Brisbane, 29th May, 1929.

We have to advise that we have made a careful investigation of the Upper Burnett and Callide Valley Settlement Scheme, and now have the honour to submit the following Report and Recommendations:-

#### GENESIS OF INQUIRY.

The Land Administration Board took office on the 1st February, I.-1928. It was appointed mainly for the purpose of administering "The Board. Land Acts Amendment Act of 1927," which dealt mostly with grazing lands, and which was designed to assist the Sheep Grazing Industry to overcome the effects of the drought and economic difficulties with which the industry was faced. The first duty of the Board, therefore, lay in grazing areas, but other important matters were noted for attention as opportunity offered. Amongst these was the Upper Burnett and Callide Valley Land Settlement Scheme.

This settlement scheme is the most ambitious land settlement project in Queensland's history, and, as originally conceived, was intended to provide farms for some thousands of settlers who would engage in Burnett mixed farming. When the Board was appointed, the scheme had been in operation for about four years; the whole of the first and second sections of the lands had been made available for selection; the third section had not been dealt with. In these circumstances the Board felt the need of carefully investigating the whole project to make sure that the foundations of the settlement were soundly laid before releasing more land for selection.

II. scheme.

The Upper Burnett lands are comprised within the Gayndah Land III. Agent's District, and the Callide Valley Lands within the Rockhampton District. Jurisdiction over the lands, therefore, was divided between the Land Commissioners at Gayndah and Rockhampton respectively. In order to secure co-ordination in all field work and to harmonise the general administration of the settlement, the late Government, in April 1928, on the recommendation of the Board, appointed a Field Superintendent with jurisdiction over the whole area, and directly responsible to the Board at Brisbane.

Early administrative reform. IV.—
Personal investigation by Board.

Having completed the more urgent adjustments of Grazing Selection tenures in terms of the 1927 Land Act, the Board, in February last, decided to proceed to the Burnett and to personally investigate the economic position of the settlement, in order to lay down definite principles of administration for the future.

Before reporting on this investigation it will be necessary to give a brief history of the settlement.

#### HISTORY OF SETTLEMENT.

I.—
Locality of lands.

The Upper Burnett and Callide Valley lands extend from near Eidsvold on the south to near Rannes on the north, a distance of about 120 miles, and have an average width of about 40 miles. Although termed a "Valley," the area has an elevation varying from 800 to 1,700 feet.

The accompanying map shows the situation of the lands and the railways by which they are served. A map on a larger scale, showing the features of the country in greater detail and also the land selected and the land still available for settlement, is attached as Appendix G.

II.— Character of country. The country embraces all classes of land from rich agricultural soils contained in many of the creek flats to third class grazing land, comprising coarsely grassed mountainous country. The average rainfall is about 29 inches.

The classification of the land made by Staff Surveyors, before the settlement scheme was commenced, was as follows:—

Acres.	First Class.	Second Class Acres.
Anna de manuel	Acres.	Acres.
Anna de manuel	Acres.	Acres.
400,000	498,000	336,000
391,000	90,000	488,000
791,000	588,000	824,000

Much of the land classified as first class "grazing" land is eminently suited for dairying, as it contains many rich arable pockets. There are considerable belts of softwood and brigalow scrubs.

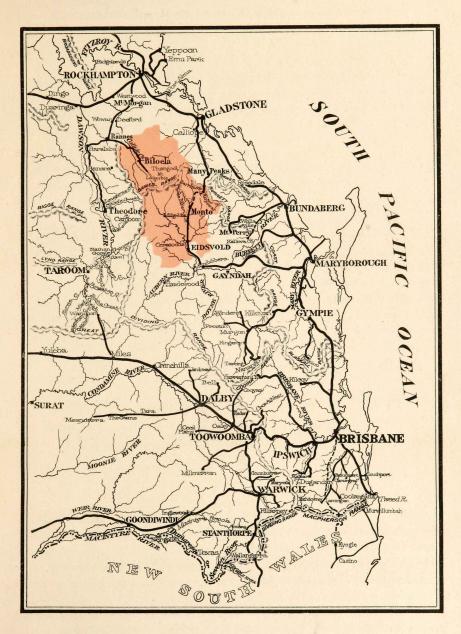
Altogether the area may be regarded as very well adapted for a successful closer settlement scheme.

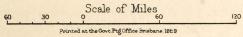
III.—
Previous
occupants of
the land.

Before the advent of the settlement scheme the lands comprised in the Upper Burnett and Callide Valley were used almost solely for grazing and were mostly in the occupation of grazing selectors and pastoral lessees.

At the time of compulsory resumption the number of occupants was 133, and the largest individual holding was 168,960 acres in area.

## MAP OF THE UPPER BURNETT AND CALLIDE VALLEY LANDS.





The total area in respect of which notice of resumption was given, IV.—

and on which compensation was fixed by the Land Appeal Court, was:

Ages:

A

33	Freeholds						Acres. 31,563	
168	Grazing Selection	ons	 		 		946,579	
1	Agricultural Fa	rm	 	al	 		1,280	
5	Prickly-pear Se.	lections	 		 		-21,623	
6	Pastoral Leases		 		 		261,120	
21	3					1	,262,165	
						1	,202,103	

Eventually resumptions were cancelled (or are in process of cancellation) in the case of 32 holdings, mostly grazing land, comprising an area of 113,275 acres, so that the holdings actually resumed number 181, comprising an area of 1,148,890 acres.

Totals

The area comprised in this settlement scheme is generally spoken v.—
of as about 3,000,000 acres. The exact figures are as follows:—

Area

Compensation for the land resumed actually paid over by the VI.—

Crown was:—

Leaseholds ... ... ... ... £173,263

Freeholds ... 69,595

In addition there were Legal Fees and Costs amounting to 1,864

Total Cost of Resumptions ... £244,722

New railways were needed in order to open up this land. Without railway communication the Upper Burnett could not have been used for any industry other than grazing, and closer settlement would have been out of the question. For years prior to Parliament authorising the building of the railways, there had been great rivalry between Rockhampton, Gladstone, and Maryborough as to which branch railway should be extended to the country. Each centre was anxious to obtain the trade that was certain to flow from this rich area, and railways from each centre had already been constructed to the fringe of the proposed settlement. Existing railways reached from Rockhampton to Rannes, on the north, from Gladstone to Many Peaks on the east, and from Maryborough to Mundubbera on the south of the area.

(b) Railway construction.

comprised in settlement

scheme.

(a) Land

resumptions

Eventually Parliament authorised the extension of all three of these railways to converge on Monto, a new township in the centre of the area.

Monto lies 103 miles from Gladstone, 179 miles from Maryborough, and 172 miles from Rockhampton. Of the three railways, that connecting with Gladstone, although the shortest, was the most costly and difficult to construct, owing to the mountainous country (the Dawes Range) through which it passes. This railway has been completed to Dalkiel, and is at present under construction to Waratah, eight miles north-east of Monto. The Maryborough-Mundubbera extension is completed and open to traffic to Monto. The Rockhampton-Rannes extension is open to Thangool—63 miles north of Monto. Rails have been laid for a few miles beyond this point, and earthwork constructed still further to Mount Lookerbie, but all work has been discontinued.

Figures supplied by the Commissioner for Railways show that the cost of the three railways to 31st March, 1929, is as follows:—

		-
Rannes towards Monto (construction discontinued)	 	374,374
Many Peaks towards Monto (still under construction)	 	779,538
Mundubbera to Monto (complete)		£561,785

(c) Roads and bridges

As part of the settlement scheme, the Department of Public Lands undertook to construct, free of cost to the Local Authorities, the necessary roads and bridges to give pioneer access to each holding. This work was commenced in 1923 and is still proceeding. After construction, the roads and bridges are handed over to the Local Authorities, who are responsible for their future maintenance.

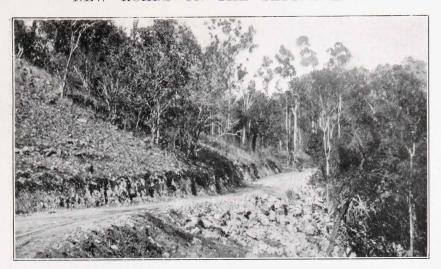
In the early days of this work the Department did not possess adequate machinery, and many of the roads were indifferently formed. The present standard of work, which is done with the aid of modern plant, is, however, quite satisfactory, and settlers are being provided with reasonably good roads. The bridges throughout the area, constructed by the Lands Department, are first class structures.

Altogether 634 miles of road and five bridges and causeways have been constructed. The total expenditure on these works to 31st March, 1929, amounted to £78,523 12s. 7d. Detailed particulars are given later in a separate section of this Report dealing with Roads and Bridges.

VII.— Water facilities and Agricultural Bank advances. Expenditure of Government Funds has also been incurred in the provision of water facilities for settlers and in advances by the Agricultural Bank for the assistance of settlers. Both these matters are referred to, in detail, in later sections of the Report. Expenditure to 31st March, 1929, under these heads, is as follows:—

Water facilities . . . . . . .  $\pounds 73,760$  Agricultural Bank advances . . . . .  $\pounds 88,131$ 

#### NEW ROADS ON THE SETTLEMENT.



Section of road between Monto and Splinter Creek, Upper Burnett.



Another view of road, Monto to Splinter Creek, Upper Burnett.



Road through scrub country near Thangool, Callide Valley.

"As part of the settlement scheme, the Department undertook to construct, free of cost to the Local Authorities, the necessary roads and bridges to give pioneer access to each holding. The present standard of work which is done with the aid of modern plant is quite satisfactory, and settlers are being provided with reasonably good roads. The bridges throughout the area, constructed by the Lands Department, are first-class structures."—Page 8.

Face Page 8.]

This expenditure, however, stands in quite a different category to the other expenditure quoted above. In each instance the money advanced is in the nature of a loan to the settler, and ordinarily should be repaid by him with interest over a period of years. Excepting, therefore, the amount spent on "duffer" bores, or otherwise written off or lost in the provision of water facilities, and the amount lost through default of the tenants in observing the covenants of their Agricultural Bank mortgages, the above expenditure will be repaid to the Government. It should not, therefore, be debited to the initial cost of the settlement. Reference to the section of the Report dealing with water facilities will show, however, that considerable losses will be incurred under this head.

Summarising the expenditure that may fairly be debited to the VIII. initial cost of the settlement, we have the following:-

special expenditure.

Compensation for Land Res	sumptions		 		233,044
Construction of Railways					1,715,697
Construction of Roads and	Bridges .		 		78,523
Total			 	£2	2,027,264

Expenditure on railways, roads, and bridges is still continuing.

It will be seen from the above figures that modern settlement IX.schemes are costly undertakings. If railways have to be pushed out ahead of settlement, if roads and bridges have to be constructed, and other Governmental aid granted to settlers, the burden of all this expenditure schemes. must, until the new settlement becomes productive, be carried by the general community.

In the present instance the expenditure amounts to £2,027,264. For that sum 1,108 persons have already been settled on the area, and the potential settlement capacity of the remaining land, on sound lines, is about 400 settlers. By the time the scheme is completed, therefore, considering that further expenditure has yet to be made on railways and roads, the cost will not be less than £1,500 per settler.

Some surprise may be occasioned by our estimate of 1,500 settlers for the whole area, because of the fact that official estimates in the past have exceeded this figure. However, the facts and reasons on which our estimate is based are fully disclosed in the following pages. may be said the reduced number is mainly due to the fact that larger areas than were originally contemplated are needed to effect sound and progressive settlement.

The large expenditure that has been incurred illustrates, in a striking way, the difference between old and new settlement schemes.

In the early days of settlement a family would settle on the land, produce almost all its own requirements, and earn in actual money a very small income, which would be expended on articles which the farm could not produce. To live, rather than to earn or produce for the use

The old method and the new.

of others, was the dominating purpose. Now all this has changed. The modern view is that, unless the income received from the products of the farm can approximate the money that would be earned from similar energies elsewhere, there is no inducement to settle on the land.

In former days communities established themselves by years of arduous pioneering work with little outside assistance, and railways were provided only after the settlers had demonstrated the wealth productivity of their lands, and their capacity to provide the railways with considerable business. Now the position is reversed; public expenditure goes first and settlement follows. Such public expenditure must necessarily be unproductive for a few years.

XI.—
Settlement
measures up
to standard
prescribed
by British
Economic
Mission.

In dealing with settlement schemes the British Economic Mission, in its Report dated 7th January, 1929 (page 6), pointed out that such schemes, financed out of loan moneys, should be self supporting within a reasonable measure of time. The members of the Mission went on to say, "By this we mean that within such measure of time they should, either directly, or indirectly through the increased taxable capacity of the community and the enhanced value and price of Government-owned land attributable to the development schemes, provide at least their own working costs, interest on the loan capital invested in them, and a sinking fund sufficient to provide for its repayment when it falls due."

Judged on that basis, the Upper Burnett and Callide Valley Settlement Scheme may be regarded as a sound State investment. We think that, indirectly, it will return interest and redemption manifold.

XII — The scheme as measured in money In the first place, on the lowest estimate that is possible, the land has increased in value considerably more than the total cost of the railways and roads that have developed it. We are not, however, impressed by this factor because the State will not receive this increased value. The land is settled on the Perpetual Leasehold system, the annual rent payable being only  $1\frac{1}{2}$  per cent. of its capital value. The Lands revenue from the settlement at the present time amounts to £15,934 per annum, and although with increased settlement this revenue will be augmented, it will not be substantially increased owing to the fact that we are making a number of recommendations for adjustments in rents.

Even if the Government allow settlers to convert to freehold, the purchasing price of the land, free from interest, will be spread over a period of from twenty to thirty years, and consequently there will not be much material gain to the Government from a revenue standpoint.

Much more important, in our opinion, than increased land values, is the wealth productivity of the land. When fully settled on the lines of our recommendations, we estimate the settlement will comprise 1,500 mixed farmers, dairymen, and graziers, and the annual production from the settlement will then probably exceed in value one million pounds sterling.

All the State expenditure, therefore, that has been incurred in the scheme must be considered in relation to the many advantages to the community of this increased annual production.

#### LAND ADMINISTRATION BOARD AT WORK.

Proceedings everywhere marked by absence of formality.



Board sitting in Railway Waiting Room at Abercorn, and group of selectors waiting to present their cases.



Board taking evidence in blacksmith's shed, Mulgeldie.



Board hearing selectors under tent fly at Waratah.

"The individual witnesses were examined in private. ""
"We have found, from experience, that though an economic investigation conducted in public may be picturesque, it is of very little real value. Witnesses will not disclose, in public, those intimate financial details of their operations, or bedrock facts, without which any attempt at an economic investigation becomes futile. Our aim, therefore, was to set the witnesses at ease, assure them that their evidence would be regarded as confidential, and then closely examine them on all material matters. In the result the witnesses gave us all the information we desired."—Page 12.

Face Page 10.]

But there is another and still more important way in which the matter may be measured—in persons rather than in money. Amongst the settlers many are to be found with large families. A number of the in witnesses who gave evidence before us had families ranging from six to ten children. Allowing, however, for average families of three children, the Upper Burnett and Callide lands will directly support 7,500 people.

The scheme as measured population.

Now for every £1,000,000 of wealth produced from the land, it may be said, as a wide generalisation, that about one-third will find its way into the pockets of the producers, while two-thirds, as costs of production and general expenses, will be distributed amongst the community. Therefore, besides the 7,500 people maintained on the land, the distributed wealth will support a further 15,000 people, making 22,500 people all told.

Such is the value of this settlement scheme to Queensland.

Much is heard from time to time of progressive settlement schemes XIV.in Western Australia. It is surprising how ready some people are to make comparisons to the detriment of Queensland, while lacking even elementary knowledge of the subject being dealt with. For the information of those who like comparisons we reproduce in Appendix A an analysis of group settlements in Western Australia which appeared in the London Times of the 14th September last. It shows that expenditure on group settlements in that State has exceeded £4,000 per head, and that, even after such expenditure, the prospects of the settlers are still uncertain.

No comment by us is needed, except to say that we have verified this information from official sources.

Having discussed the matter in this general way, we will now proceed to give particulars of our Inquiry and to state in detail the conclusions we have reached regarding the future administration of the Upper Burnett and Callide Valley settlement.

#### PROCEEDINGS OF BOARD.

The Board opened its inquiry at Mundubbera on Thursday, 28th I.-February last. Subsequently sittings were held at Eidsvold on the 2nd March, at Abercorn 4th March, Mulgeldie 5th, Monto 6th and 7th, Kalpowar 8th, Waratah 9th, Biloela 11th and 12th, Thangool 13th, Jambin 14th, Goovigen 15th March, and later at Brisbane.

Sittings held.

In addition to hearing evidence, numerous inspections of holdings, vacant lands, and roads were made.

Altogether 339 witnesses were examined. Their notes of evidence, II. covering 664 pages of typewritten matter, have been bound into a separate Witnesses examined. volume and forwarded to the Hon. the Minister for Lands for his information. All witnesses were given an assurance that the financial details of their evidence would be regarded as confidential.

An alphabetical list of the witnesses is given in Appendix C.

In attending sittings and in making inspections the Board travelled III. 1,143 miles by motor-car.

Miles travelled. Proceedings in private.

The individual witnesses were examined in private. If the witnesses desired anyone else to be present, their wishes were respected; otherwise the Inquiry was not open to the public.

We have found, from experience, that though an economic investigation conducted in public may be picturesque, it is of very little real value. Witnesses will not disclose, in public, those intimate financial details of their operations, or bedrock facts, without which any attempt at an economic investigation becomes futile. Our aim, therefore, was to set the witnesses at ease, assure them that their evidence would be regarded as confidential, and then closely examine them on all material matters. In the result the witnesses gave us all the information we desired.

#### THE MUNDUBBERA SETTLEMENT.

I.—
Relevancy
of the
Mundubbera
lands.

As already stated, our Inquiry opened at Mundubbera. This district is situated near the Upper Burnett district, and comprises a belt of forest and scrub country somewhat similar to the country of the Upper Burnett, and of approximately equal rainfall. The good lands in the latter area are, however, much more extensive than those of the Mundubbera district, which also has the disadvantage of pear infestation.

The Mundubbera lands were settled in a virgin condition about fifteen years ago without special Governmental aid other than the provision of pioneer access. The settlement is now well established and is prosperous. It seemed to us, therefore, that if the Mundubbera settlers would take us into their confidence, tell us the difficulties they had encountered, and the obstacles they had overcome, and give us details of the working of their holdings and of their financial position, our task in forming an accurate judgment on the soundness of the Upper Burnett project would be very much lightened. That is why the Inquiry was opened at Mundubbera.

II.—
Acknowledgment of public service rendered by witnesses.

Twelve witnesses submitted themselves for examination in response to general invitations issued by the Board. A number of these witnesses were original settlers in the Mundubbera and adjacent districts. They were in occupation of different classes of country, and some came considerable distances to be present at the Inquiry. Their names are include *I* in Appendix C.

We wish to acknowledge the sense of public service which prompted the attendance of these settlers to assist the Board. The settlers themselves had nothing to gain. The terms and conditions of their lands were not under review. They could hope for nothing from the Inquiry. Yet with obvious goodwill towards the administration they readily came forward to give the Board the benefit of their knowledge and experience.

Such disinterested co-operation is gratifying and worthy of acknowledgment.

III.—
Facts
established
by
Mundubbera
evidence.

The evidence at Mundubbera, and our inspections and inquiries in the locality, establish the following:—

(1) When originally settled, the area around Mundubbera allotted to each selector was too small. Most of the settlers started out without any monetary capital whatever and

#### THE GROWTH OF MUNDUBBERA.

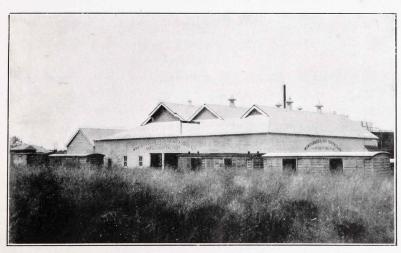
Successful land settlement and industrial progress are closely allied.



The main street, Mundubbera, 1914.



Mundubbera to-day.



Mundubbera Butter Factory.

"What Mundubbera has done, several centres throughout the Upper Burnett and Callide Valley may do better."—Page 14.

Face Page 12.]

many of them failed to succeed. Gradually, however, the size of holdings increased by aggregation, and now the settlement is established on a sound and prosperous basis. The selections are held as Agricultural Farms, on the freeholding system, as distinct from Perpetual Leases.

The original subdivision of the land was in areas of from 160 acres upwards. Taking an average it may be said that the areas should have been about doubled. A good living can be made from 300 acres of first-class scrub land, or from 500 acres of good forest land, with, say, 50 acres to 100 acres of cultivable land thereon.

Most of the successful farmers to-day hold two or three of the original blocks.

- (2) The original purchasing prices placed on the land by the Crown were somewhat high. They have, however, since been adjusted and reduced by the Prickly-pear Land Commission, under whose jurisdiction the land now is, and settlers seem quite satisfied and contented with the treatment they have received.
- (3) In the Mundubbera District, both the scrub and forest land is good sound, healthy, dairying country. There is also a considerable extent of first-class agricultural land.
- (4) In the case of scrub dairy farms it is desirable, and in the case of forest farms essential, that cultivation be maintained for feeding the milking cows in dry times and during the winter months, when the grasses have lost their succulence. Artificial grasses on scrub country, of course, keep succulent longer than natural grasses on forest land.
- (5) To get the best results, a dairyman on forest country should have under cultivation an area of about one acre per milking cow. The crops grown in the district for cow feed include lucerne, cowpea, maize, soudan grass, and imphee.

Instead of cutting and chaffing the feed, many farmers merely graze their milkers on the cultivation for a short time daily, which, of course, saves labour, but a larger area of cultivation is required.

- (6) From a dairying standpoint, the district compares favourably with the best dairying districts in the State. Witnesses who appeared before us had previous experience on the land, on the Downs, at Nerang, Lowood, Laidley, and Murgon. The concensus of opinion was that, with the aid of cultivation, a dairy herd in the Mundubbera district would return profits as good as in any of the other districts mentioned.
- (7) A few high-class pedigree milking herds are maintained in the district. In particular, the Illawarra stud of Messrs. Spoor Bros. has won many prizes at Brisbane Shows and other Agricultural Shows throughout Queensland.

- (8) The returns from dairying vary according to the grade of cow and the seasons. The highest return from ordinary dairy cows mentioned in evidence was 35s. per cow per month; the lowest was 12s. 6d. per cow per month. From the evidence we are satisfied that ordinary good grade dairy cows, with the aid of cultivated fodders, will return about £1 per cow per month throughout the year; that is a dairy farmer maintaining an average milking herd of 30 cows will receive a gross return from cream of about £360 per annum. The capital invested in such dairy farm, including dry cows and young stock, dwelling, improvements, and plant, would be about £1,750, exclusive of the value of the land.
- (9) A large co-operative butter factory is established at Mundubbera.

During the twelve months, 1st January, 1928, to 31st December, 1928, 942 tons of butter were manufactured at this factory. The total amount paid to suppliers for the twelve months was £134,703. Of this, the largest monthly amount was £16,966 for the month of January, and the smallest £5,883 for the month of June last. The average number of suppliers was 558. The returns, therefore, equal an average of £242 per supplier per annum. This return would be higher if confined to ordinary dairymen, excluding those suppliers who run only a few cows as a side line. Details are given in Appendix B.

- (10) The chief crops grown in the district for market are cotton, maize, and broom millet.
- (11) The railway returns for twelve months, 1st January, 1928, to 31st December, 1928, show that 1,885 tons of produce were despatched from Mundubbera, while the freight collected by the Railway Department on goods and live stock despatched amounted to £7,487. The inwards freight amounted to £8,559 for the same period.

IV.—
What
Mundubbera
has done,
the Upper
Burnett may
do better.

Four determining

land

settlement.

It will be clear from the above facts and figures that Mundubbera is now a prosperous mixed farming area. All qualities making for success in this district are present in greater measure in the lands of the Upper Burnett and Callide Valley. What Mundubbera has done, therefore, several centres throughout the Upper Burnett and Callide Valley may do better.

#### UPPER BURNETT AND CALLIDE VALLEY LANDS.

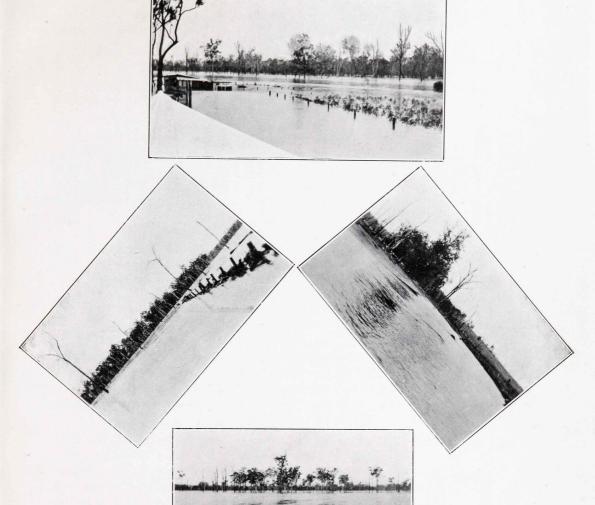
The four chief factors which determine the success or otherwise of a settlement scheme are:—

- (1) Quality and suitableness of the land and climate.
- (2) Character and suitableness of the settlers.
- (3) Markets for the products.
- (4) General administration.

We will deal with each of these matters in turn.

#### THE MENACE OF FLOODS ON LOW-LYING LANDS.

Many of the flats throughout the Upper Burnett and Callide Valley are inundated for short periods by flood waters after heavy rains. These photos. were taken in different parts of the settlement.





"Generally, settlers have much more to fear from dry conditions than from excessive rains, unless they take steps to protect themselves by storing fodder. In average years the great bulk of the rich agricultural land in the district may be cultivated without losses by flood."—Page 16.

Face Page 14.]

#### QUALITY AND SUITABLENESS OF THE LAND AND CLIMATE.

We have already expressed the opinion that the Upper Burnett I .and Callide Valley lands are eminently adapted for a successful closer Land quite settlement scheme.

suitable for settlement.

Rich belts of country exist which bear comparison with anything to be found in other parts of Queensland, and, if closer settlement could not succeed on such an area, the outlook for increased primary production in Queensland would be dismal indeed.

But it must be remembered that the country is, or a few years ago II.was, largely virgin land, and, therefore, many years of concentrated effort Prospects of will be needed to put this settlement in the same developed and established favourable condition as the older closer settled districts of the State, such as for instance the South Coast, the Brisbane Valley, or the Wondai-Kingarov areas.

closer settlement districts.

The progress that has already been made, and the towns that have been established throughout the area, speak well for the energy and enterprise of the people, and, in the course of time, there is no reason to doubt that this great new district will compare favourably in prosperity with the other districts mentioned.

The climate of the settlement is invigorating and healthy. Sheltered III. from the humidity of the coast by the Burnett and Dawes Ranges, the Climate and winds that come in from the Pacific are dry and keen. The winters are not unduly severe. The average annual rainfall, taken from official records at places scattered throughout the area, is about 29 inches.

We are indebted to Mr. Joseph Ball, of Rosebank, Kalpowar, for a valuable private record over a period of 21 years, from 1908 to 1928 inclusive, of the rainfall at Rosebank, which is situated about 18 miles north-east of Monto. This record shows the daily and monthly rainfall throughout the whole of this period. The average is 33 inches. It will be noted that this average is greater than the average rainfall for the whole settlement, which is evidently accounted for by the nearness of the country to the Dawes Range.

So valuable do we consider this record to be that, for the information of settlers throughout the area, we have reproduced it in full in Appendix D.

The Upper Burnett and Callide Valley are served by the Burnett IV. River, and many large creeks. On the southern watershed there are Floods and Splinter, Three Moon, Monal, Boogolgopal, Cattle, Trevethan, Small's, and other creeks, and the Rawbelle or Nogo River. On the northern watershed the creeks are Grevillea, Kariboe, Kroombit, Callide, and Bell. creeks drain an extensive area of country, and in heavy rains the water overflows the banks and inundates the adjacent flat country. In places there is a considerable current.

Reference to the rainfall record abovementioned will show that the years 1927 and 1928, and the early part of the current year, were exceptionally wet. In consequence floods were more severe than usual, and much damage was done on the rich alluvial flats adjacent to the creeks. Crops were damaged or destroyed, and fences were pushed over by debris brought down by flood waters. A number of settlers complained that their crops had been destroyed in three successive years.

The set back that such a happening would be to a new settler can readily be imagined. In fact, so disappointed were some that they have expressed their intention of not putting this flooded country into cultivation again.

We think that, generally, settlers have much more to fear from dry conditions than from excessive rains, unless they take steps to protect themselves by storing fodder. In average years the great bulk of the rich agricultural land in the district may be cultivated without losses by flood.

#### CHARACTER AND SUITABLENESS OF SETTLERS.

Settlers are a good type.

Of the 1,108 settlers who have been allotted portions, we met and discussed settlement problems with 339. Not more than five per cent. of this number are unsuited for facing the pioneering conditions of a new settlement. On the other hand, at each place visited we saw a number of hard-working progressive men, who are determined to succeed, and whose accomplishments to date are very creditable. These men will be a stabilising influence in the places where they are settled. The scheme will not fail for want of suitableness of the settlers.

#### MARKETS AND PRICES FOR PRODUCTS

Variety of crops.

The land is capable of producing many and varied products such as different kinds of crops, cream, pigs, and fat stock. For the present cream and cotton are the principal products.

II.—
Butter and cotton are chief products.

The problems of marketing the products from the area are no different from the general problems of marketing which face all primary production in the State. They need not, therefore, be specifically referred to in this Report.

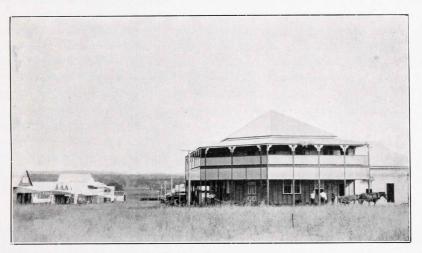
As already mentioned the two chief products are butter and cotton. Butter is protected by the "Patterson scheme," under which the Australian consumer pays more for the butter he uses than World's parity. The tax the consumer thus pays equals about  $4\frac{1}{2}$ d. per lb. on all butter exported.

The dairying industry is conducted not only in Queensland but in all the States of Australia; its operations are well known to Government Authorities, both State and Federal, and there is nothing exceptional in this district, regarding markets and prices, to which attention should be drawn.

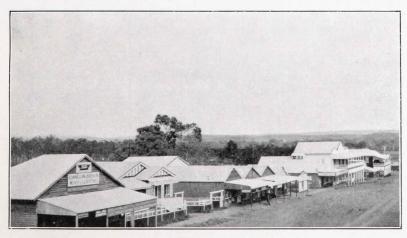
#### THE FOUNDATION OF MONTO.



Site of Monto, 1924, at the commencement of settlement.



Monto to-day.



The main street, Monto.

Less than five years old, Monto is a rising township, in picturesque country in the heart of the Upper Burnett. Surrounded by good dairying and agricultural land, Monto is destined to become the capital of the Upper Burnett and a country township of considerable importance. Face Page 16.]

With cotton, however, the position is different. The Upper Burnett III. and Callide Valley and neighbouring districts are specially suited for the production of cotton. In fact they are the chief cotton producing centres of Queensland and Australia.

is going backwards.

The area under cultivation is, however, going backwards. Although definite figures for the 1929 season are not available, the evidence clearly establishes that, throughout these districts, the area of cotton at present being harvested is less than the preceding year, and the prospects are that smaller areas will be put under crop during the current year. In the circumstances we will give a brief outline of the Queensland Cotton Industry and explain the reasons for the downward tendency.

In the year 1919, the State Government, in order to encourage the IV. growing of cotton in Queensland, instituted a system of guaranteed prices, definite intimation being given that the period of guarantee would be for oction. five years, the rates of payment to be varied according to circumstances from time to time. During the first two years of the guarantee, a price of  $5\frac{1}{2}$ d. per lb. was paid for all seed cotton harvested. During the subsequent years the maximum price ranged from  $5\frac{1}{2}$ d. to 5d., and variations were made in the price according to the grade and staple length of the seed cotton. Up to and including the year 1923, the State Government had incurred a loss of £68,930 as a result of the guaranteed prices.

From and including the year 1924, the Commonwealth Government agreed to share in the losses involved by the guarantee. The last year of guaranteed prices was 1926, the price for best grade being fixed at 5d. per lb. maximum, but in addition the Queensland Government paid ¹/₂d. per lb. as a special grant to growers, thus bringing the price for the best grade of cotton to  $5\frac{1}{2}$ d. per lb.

In 1926 the Commonwealth Cotton Bounty Act was passed. provides for a direct bounty on seed cotton of 13d. per lb. on higher The Comgrades, and 3d. per lb. on lower grades. The Act also provides for a bounty on cotton yarn made in Australia subject to at least 50 per cent. of Australian cotton being used in the manufacture of the varn. bounties are payable for five years from 16th August, 1926.

The following figures, for which we are indebted to the Manager of VI. the Queensland Cotton Board, indicate the fluctuations in cotton growing Area and in Queensland, and the prices obtained by growers:-

cotton crop.

Year.					Approximate Area under Crop.	Weight.	Average price per lb. (approx. only).	Total value of crop (on guaranteed or bounty prices).		
1920					Acres.	Lb.	d.	£		
1920	Maria !				166	45,581	$\frac{5\frac{1}{2}}{1}$	1,038		
	-4.	103			1,967	922,778	$5\frac{1}{2}$	21,145		
1922					8,176	3,878,673	$5\frac{1}{2}$	88,466		
1923					28,695	11,769,502	$5\frac{1}{2}$	264,399		
1924	1916.91	4.		·	35,373	15,179,046	5	314,775		
1925					40,000	18,296,507	$4\frac{1}{2}$	338.187		
1926			H.P.		36,000	9,007,148	*5	*188,989		
1927	31 . 4 0	BIROR.			18,000	7,054,951	5	150,000		
1928					24,970	12,218,036	$4\frac{1}{2}$	228,000		

^{*} Includes State grant of 1d. per lb.

It will be noticed that since 1924, when the payment to growers was made dependent on the grade of cotton produced, the proportion of low grade cotton harvested somewhat affected the average price per lb. received by the growers.

VII.—
Amount of Commonwealth bounties paid.

The amount of Commonwealth bounty for the year 1927 was approximately £43,000, and for the year 1928, £76,000. This equals a bounty of approximately 40 per cent. and 50 per cent. respectively on the value of the crop. The protection already granted is, therefore, considerable, though the evidence before us clearly establishes that it is insufficient if the industry is to survive.

VIII.—
Is the cotton industry worth establishing?

What is the value of the cotton industry to Queensland, and is it worth establishing as an integral part of the life of the State? The Cotton Board answers this query with the following comment:—

"Already this young industry is playing an important part in the life of the community. With the production of slightly over 12,000,000 lb. of seed cotton in the 1928 season, more than 4,000 pickers were employed, exclusive of family labour. The wages bill is a big one. The payment to the railways for transport charges was approximately £8,000. Further moneys have been paid in connection with the handling of lint for export, and the ginneries and oil mills of the British Australian Cotton Association employed during the season about 120 employees. In addition, this company pays away other large sums of money for cartage, handling, and shipping charges on cake and oil. In the face of these facts it is easy to visualise the very great influence for good which an extensive cotton industry would have on the community in general.

A quadrupling of the present crop is possible within a very short space of time. This increase in the crop, however, can only be brought about by sales of lint to Australian spinners. This would mean an additional annual income of £600,000. The effect of this increased wealth upon the relieving of unemployment and upon the important national questions of development and migration is difficult to measure.

If the industry is worth establishing, and this we contend is unquestionable, then due regard must be had to the fact that adequate assistance is necessary during the experimental stage. When one has regard to the fact that the American industry has been in existence 100 years, it is obvious that the Australian industry, which has only been in existence a few short years, has not yet emerged from the experimental stage."

IX.—
Stabilisation
of prices
essential.

For the Callide Valley the matter of the survival of the cotton industry is of great importance. The foundation of that district, much more so than the Upper Burnett, was based on the growing of cotton. Cotton originally attracted most, of the settlers to the land. Cotton kept them going. Cotton established the towns of Biloela and Thangool. If, therefore, unsatisfactory prices now compel the abandonment or considerable curtailment of the industry, a serious blow will be dealt the district. Everywhere it was noticeable that there is almost a scramble on the part of cotton growers, who have or can obtain finance, to go in for dairying because of the greater measure of stability that pertains to the dairying industry.

Cotton growing, as an industry, must surely and quickly decline unless means can be found to stabilise prices, and ensure a reasonable return to the grower.

Last season's average price (including bounty) of 4½d. per lb. for raw X.cotton does not pay the grower for an average crop. Although there have production been instances of cotton crops yielding up to 1,400 lb. to the acre, the been instances of cotton crops yielding up to 1,400 lb. to the acre, the average production, from all evidence obtained by us, is about one bale (480 lb.) per acre.

The following schedule giving costs of production for 100 acres of cotton, yielding one bale (480 lb.) per acre, shows that a return of  $^{7}4\frac{1}{2}d$ . per lb. is inadequate:-

lb. is inadequate:—								
Сотто	N GRO	WING.						
	tal Inv	ested.						
Improvements—						£	8.	d.
200 acres cleared and broken						600	0	0
280 chains of fencing at 10s.						140	0	0
House						500	0	0
Machine sheds						50	0	0
Cotton shed						50	0	0
Water facility						250	0	0
Total value of improvement	ts	diam'r.	2,13	Physical Property of the Parket	£	1,590	0	0
A secretarity of the land and and a						,		_
Machinery and Equipment—								
Fordson tractor						210	0	0
Two horses and harness						40	0	0
3-furrow tractor plough		ille. to				74	0	0
6-section harrow				desire.		14	0	0
Cotton planter and scarifier						28	0	0
One Ford ton truck				To Long ?		210	0	0
						£576	0	0
m-4-1 '4-1 ' 4-1								
Total capital invested						2,166	0	0
Costs of	Cultin	ation						
			1		_			
Cost per acre (ploughing):—Por lubricating oil, 1s.; repairs, 2s.	wer, F	cerosene	e, · be	enzine,	7s.;			
Cost of ploughing 100 acres						=0	0	0
Two harrowings at 2s. per acre	10111				• •	50 10	0	0
Planting, 2s. 6d. per acre						12		0
Cotton seed, 12 lb. per acre					• •	5	0	0
Three scarifyings at 4s. 6d. per acre						22		0
Thinning out, 7s. per acre			1			35	0	0
				10:00				
Total cost of cultivating 100 ac	eres					£135	0	0
Gross Retur	ns from	2 100	Acres					
Estimated yield, 480 lb. seed cot					n lh	000	0	0
The second of the second con		acre	at			900	0	0
D' 1' 4 21 11	Costs.			1				
Picking at 2d. per lb				40				
Cultivation costs	1014			13	5	-0-	0	0
						535	0	0
Net returns from 100 acres cotto	on—ap	proxima	ately	14d. per	: lb.	£365	0	0
0.1	7 07							
	ad Che	arges.						
Interest on capital at 6½ per cent.						140	15	10
Depreciation on structural improvem		per c	ent.			49	10	0
Depreciation on machinery, 10 per of	ent.					57	12	0
						£247	17	10
in the same of the								
Net returns from cotton				4		365	0	.0
Overhead charges						247		10
Net profit						£117	2	2
						2111	-	
= 585d. per lb., or £1 3s. 5d.	per acı	e.						

If means could be found to increase the return by 1d. per 1b., making an average of about 5½d. per 1b., which was the price originally guaranteed by the Queensland Government, the area under cultivation would be largely increased, and the industry would have unlimited possibilities of expansion in this fertile tract of country. At that price, if only an average crop were obtained, the farmer would receive a small, but not insignificant, profit, while, on the other hand, if he were fortunate enough to secure a good crop of two bales to the acre, he would receive a handsome return for his labour.

XI.—
Comparison
of picking
costs—
Queensland
and America.

Analysing the production costs quoted above it will be found that the heaviest item is that for picking the cotton. This costs 2d. per lb. In the United States of America, the chief cotton producing centre in the world, the cost of harvesting seed cotton is only slightly over ½d. per lb. How, then, can Queensland compete without heavy protection?

Doubtless this low American cost of harvesting is the chief reason why inventive genius has not been invoked to provide a satisfactory mechanical picker. While a mechanical picker is not needed in the cotton belt of America, where low wages and deplorable industrial conditions prevail, such a machine in Queensland, if it enabled cotton to be harvested at, say 1d. per lb., might well be the salvation of the industry.

XII.—
Commonwealth
Government
now
considering
action.

Various proposals have been submitted to the Commonwealth Government by the Queensland Cotton Board and by cotton manufacturers to help the growing and manufacturing industries over the difficulties with which they are faced, due to competition from overseas.

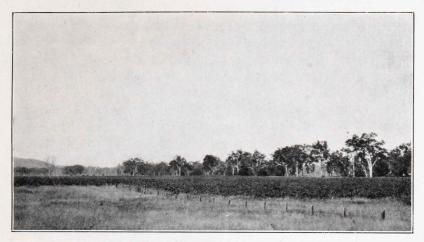
These proposals may be summarised as follows:—

- (a) Duty on raw cotton and linters to be imposed so as to ensure the purchase of the Australian article by spinners.
- (b) Deferred duty on cotton yarn to be made effective.
- (c) Duty on cotton wadding and oils to be increased.
- (d) Bounty to be given on percentage yarn.
- (e) Bounty on cotton yarn to be increased.

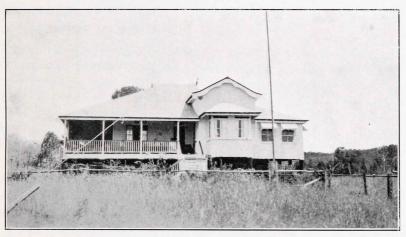
The Commonwealth Tariff Board has inquired into these matters, and has reported thereon to the Commonwealth Government, which now has them under consideration.

Unless a decision is given immediately, which will indicate to the growers that they will receive more than an average of 4½d. per lb. for their seed cotton, there will be a marked shrinkage in the acreage of cotton planted this season.

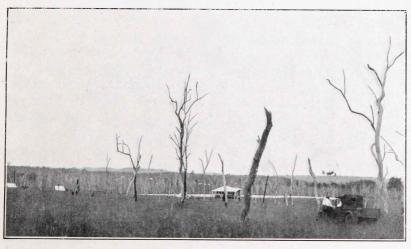
#### GLIMPSES OF THE UPPER BURNETT.



A field of cotton, Waratah.



" Kerwee," a residence on the settlement.



The start of a new township on the Many Peaks-Monto Line, 13 miles north-east from Monto. The first building erected is the railway station-master's house. Face Page  $20.\rceil$ 

#### GENERAL ADMINISTRATION.

Matters of general administration in regard to the Settlement will i.be discussed under the following main headings:-

Matters discussed.

- (1) Sound Settlement Areas.
- (2) Additional Areas for Settlers.
- (3) Capital Values and Rents.
- (4) Freehold Tenure v. Perpetual Lease.
- (5) Water Facilities for Settlers.
- (6) Roads and Bridges.
- (7) Operations of the Agricultural Bank.
- (8) Immigration Settlement.
- (9) Prickly-pear Land.
- (10) Departmental Organisation.

#### SOUND SETTLEMENT AREAS.

In determining sound settlement areas it is first necessary to have I.regard to the purpose for which the land will be used. This land may be Areas should be deterused for agriculture or dairying.

mined on dairying basis.

To carry on agriculture successfully, assuming there is a satisfactory market, requires a smaller area than does dairying, but we think it would be very unwise to found this settlement on an agricultural basis only. Not only does agriculture require the best quality of land and assured rains, but the settler must wait a whole year for his returns. Moreover, the future of cotton is not certain, and the market for other agricultural products fluctuates enormously.

Dairying, on the other hand, can be successfully conducted on indifferent land, so long as a reasonable area of cultivation is available. It gives a regular monthly return; it has a stabilised market, and insurance against dry seasons can be provided by the conservation of fodder. We think that the areas of this settlement should be determined on a dairying basis, rather than force the settler into an inevitable gamble on agriculture, dependent as it is on seasons, markets, and prices.

Considered in this way we are of the opinion that, on an average, II.the areas are too small. Some of the portions are large enough, while others are quite inadequate to provide a reasonable living for the settler. The mistake that was originally made in the Mundubbera subdivisions has been repeated, though, fortunately, not to the same extent.

areas are too small.

For successful settlement some of the portions will need to be doubled in area, others increased by 50 per cent., while a number will be quite satisfactory as they are.

A settler should, in our opinion, have such an area as will not merely provide for his present requirements, but give him as time passes some opportunity of augmenting his income by the intelligent use of his land. A bare living is not a sufficient inducement to settle on the land, nor does it give much incentive for developing the land to the utmost.

III.—
The factor of family labour.

Another factor to be weighed in determining areas is that the farm income always represents the labour of at least two persons. Often it represents the labour of a large family.

The hours of work also are longer than in any regulated industrial calling, and usually average 10 or 12 hours per day. And although labour may be lightened by the use of machinery such as tractors, milking machines, power separators, and the like, the work of a successful dairy farm must always entail long hours. Neither is there any break nor holidays; the work is continuous the whole year round. Indeed dairying has been facetiously described as the nearest known approach to perpetual motion.

On the other hand the compensations for the effort put into the building up of a successful farm are many—Natural life, monthly income, independence, cheaper living on account of using the products from the farm, and augmented assets in old age owing to the land increasing in value as years pass by, are the most obvious advantages that accrue.

IV.—
A "forty-five cow standard" recommended.

For a new settlement such as this we are of the opinion that each settler should have sufficient land to permit him to have at least 30 milkers in profit throughout the year; that is, his selection should be capable of carrying about 45 head of grown cattle, together with young stock and necessary working horses, and should also have at least 50 acres of cultivable land for growing feed for the cows. This should give him a gross income from his dairy of about £360 per annum, which ordinarily would be added to by pigs, crops, &c.

The standard suggested is for selections well situated; areas would need to be still further increased for lands more remote from railway, or subject to any special disability.

V.—
Areas
required on
new
standard.

What area will be required to fulfil this new standard? The carrying capacity of land varies greatly. The best of forest land in this district may carry one beast to five acres throughout the year. Forest land capable of being used for dairying varies in capacity from this down to one beast to ten acres.

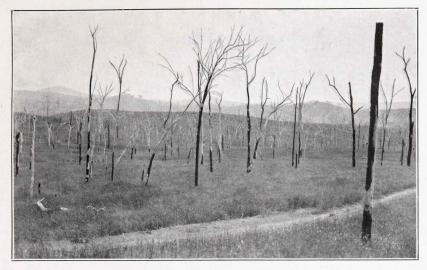
Areas would therefore range from 300 acres upwards according to quality, with an average area of, say, 500 acres. Scrub lands planted with artificial grasses are of better carrying capacity than forest country; moreover, such grasses retain their succulence longer.

We think, however, that 300 acres of the best dairying land on the settlement is sufficiently small.

VI.—
Increased areas not needed in all cases.

We repeat that increased areas will not be needed in all cases. In many instances settlers are satisfied with the areas they hold, and many areas conform to the standard laid down by us; in fact, a few settlers have more land than they can improve and bring into production.

## GRAZING AND AGRICULTURAL LANDS, UPPER BURNETT AND CALLIDE.



Ringbarked ridges between Waratah and Kolonga, Upper Burnett.



Hereford cattle grazing, parish of Grevillea, Callide Valley.



First-class cultivation land, Cania road, Upper Burnett.

"Rich belts of country exist which bear comparison with anything to be found in other parts of Queensland, and, if closer settlement could not succeed in the Upper Burnett and Callide, the outlook for increased primary production in Queensland would be dismal indeed."—Page 15.

Face Page 22.]

In all cases, however, where settlers have less than the standard area they should be allowed to increase their holdings.

It may be objected that a "45-cow standard" does not give much VII. scope to a man with a large family. Each son of the family, however, if of the age of 16 years, may acquire or select a similar area on giving proof that he is in a position to develop it. The land may then be worked in conjunction with the father's block, and if distant not more than five miles, residence by the son on the father's block will suffice for performance of the condition of personal residence.

The position of the family man.

Moreover, there is no obstacle in the way of the father acquiring by purchase additional land when he is in a position to work it, so long as he keeps within the general limit as to area laid down by the Land Acts.

As already stated not all the land in the settlement is suitable for agriculture or dairying; some of it is purely grazing country.

Standard for grazing areas.

The area required to make a living from grazing in this district varies according as the land is fattening or breeding country.

The evidence establishes that a fair return from fattening country is about 30s. per beast per annum on the carrying capacity of the holding. In our opinion grazing areas in this district should have capacities ranging from 300 head to 1,000 head of cattle according to the character of the country, distance from railway, and other circumstances present in each case.

#### ADDITIONAL AREAS FOR SETTLERS.

The matter of adjusting areas at this stage will be a task of great I.difficulty. It is well to recognise that no matter how admirably the matter may be handled, no matter with what equity and justice the claims may be met, all the settlers are not likely to be satisfied. Human nature has its weaknesses; self interest is still a powerful trait of mankind. most men are poor judges of their own cases; they look not for equity or justice but for acquiescence in, and approval of, their claims.

Administraties in

It must not be expected, therefore, that these adjustments can be effected without criticism from those whose applications for additional areas are such that they cannot reasonably be met. Disappointed hopes, when concessions are going around, are always a source of heart-burning and discontent. However, if the interests and prosperity of the whole of the settlement are truly served, that is all we can hope to accomplish.

Two main classes of cases will arise for consideration, selections II.which have vacant Crown lands either adjoining or in close proximity, and selections which have no available Crown lands in their neighbourhood. consideration.

The first group of cases may be adjusted by allotting to each selector a portion of the available Crown land as an additional area, or in the event of there being more than one applicant with equal claims, by holding a ballot to determine priority.

But in the case of two claimants for the same additional area it might so happen that one of them had fully developed his existing holding while the efforts of the other had been somewhat half-hearted. In such an event we think the person who had proved his greater capabilities as a selector should receive preference over the other applicants.

In the second group of cases, where no Crown land exists in the immediate neighbourhood, the selectors should be allowed to adjust their position by buying from or selling to one another. In the event of a selector selling his holding to his neighbour, he should be allowed to select a sufficient area of available land elsewhere in the scheme.

III.—
Should additional areas be granted some distance away from original holdings?

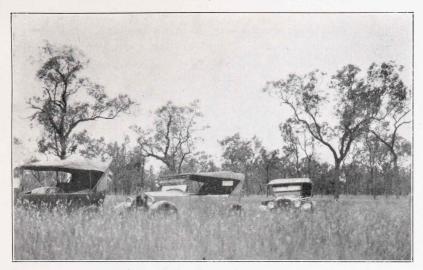
Another question that arises is whether, in the event of there being no vacant Crown land near at hand, additional areas should be granted at some distance, say up to ten miles, from original holdings. The evidence shows that opinion amongst settlers is about equally divided on this question. Many would prefer such additional areas to none at all, while many think that additional areas, so situated, would be of little value to them.

The Board does not favour the proposal. We think that moves of this kind, dictated by expediency, should be barred. In our opinion such a form of patchwork settlement would give satisfaction to very few and ultimately would be against the best interests of the district.

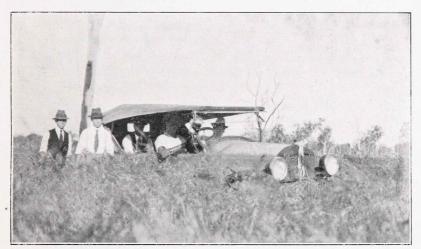
IV.— Summary of recommendations as to areas. Summarising the requirements of the position as to size of areas and as to granting additional areas we recommend:—

- (1) That the areas for new settlement in the Upper Burnett and Callide Valley be based on dairying rather than on agricultural pursuits.
- (2) That each settler be allowed to hold such an area as will permit him to milk at least 30 cows all the year round—that is, his selection should be capable of carrying at least 60 head of mixed dairy stock, with necessary working horses, and should also provide at least 50 acres of cultivable land.
- (3) That new selections remote from railway, or subject to other disabilities, be increased in area beyond this standard.
- (4) That selectors already established on areas that do not conform to above standard be allowed to increase their holdings—
  - (a) By the allotment to them of an additional area in the event of there being vacant Crown lands in the immediate neighbourhood; or
  - (b) By the purchase of a neighbouring selection.

#### NATURE'S WEALTH, CALLIDE VALLEY.



Natural grass, parish of Grevillea (third section).



Growth of natural grass, Callide Valley.



Extensive flats, parish of Grevillea (third section).
The third section has not yet been made available for settlement.

''Judged on the basis laid down recently by the British Economic Mission, the Upper Burnett and Callide Valley Settlement Scheme may be regarded as a sound State investment. Indirectly, it will return interest and redemption manifold.''—Page 10.

Face Page 24.]

- (5) That additional areas be not granted more than a few miles away from the original selection, and that generally selectors requiring an additional area, whose selections adjoin available Crown land, be regarded as having a better claim to such available land than selectors more remote.
- (6) That claims for additional areas of available Crown land be heard in open Court, and be determined judicially by the Land Commissioner, with a right of appeal to the Land Administration Board, whose decision would be final.
- (7) That when additional areas have been granted, or acquired, personal residence on one of the blocks should be regarded as sufficient—that is the additional area should be free from residential conditions.
- (8) That in order to facilitate adjustment of areas, selectors be allowed to sell their holdings to their neighbours. For this purpose the subdivision of selections and the sale of a portion to one neighbour, and a portion to another neighbour, to be allowed, and the Agricultural Bank to make advances to assist such dealings.
- (9) That bona fide selectors who sell their holdings to neighbours be eligible to select a new selection of adequate area elsewhere in the settlement.
- (10) That the area of grazing land which one person may acquire be regulated according as it is fattening or breeding country, and that these areas vary from a carrying capacity of 300 head to 1,000 head, according to the circumstances present in each case.

#### CAPITAL VALUES AND RENTS.

The capital values of dairying or farming blocks on the settlement L. range from 17s. 6d. per acre to £3 10s. per acre, and the rents payable Range of on grazing lands from  $\frac{3}{4}$ d. to  $5\frac{1}{2}$ d. per acre. These figures include values and "loading" for the necessary roads and bridges constructed by the Crown.

At one time it was the practice of the Department to show II. "loading" separately, but for certain administrative reasons that practice The method was discontinued, and the value of the land and the amount of loading, although calculated separately, were eventually lumped together in one bridges. sum as the capital value.

In the case of this settlement the loading on Perpetual Leases was arrived at on an acreage basis—that is each acre of land carried the same amount of loading, irrespective of the quality or productive capacity of the land. The consequence of this method was that the capital values of inferior lands were fixed at rates relatively higher, and out of proportion to the capital values fixed on the good lands.

However convenient this method may be, in practice it is unsound, and hence many capital values need to be reviewed.

III.—
Conflicting views of selectors.

About two-thirds of the witnesses who came before us asked for a reduction in capital values, the remainder were satisfied with their present values. In fact many settlers expressed the view that the capital values of their selections were moderate, and that it would be unreasonable to request a reduction.

IV.—
Rents are merely 1½ per cent.
of capital values.

It has already been pointed out earlier in this Report that, on the Perpetual Lease system, the rental payable is merely  $1\frac{1}{2}$  per cent. of the capital value. As the real value of money is about four times this percentage, capital values would indeed have to be high before the tenant was unduly burdened by rent. On present capital values the rents payable by tenants on average selections range from about £6 to £13 per annum, or from 2s. 6d. to 5s. per week. Such rents, providing the selections were reasonable living areas, would be quite moderate.

Crown tenants cannot expect to get their lands for nothing, because the Crown loses the grazing rents which were formerly collected from the lands, and has to pay interest and redemption on the cost of resumptions and on the cost of constructing roads and bridges, not to mention the new settlement railways.

V.— Recommendations as to rents. While we think that the best of the lands are not unfairly rented, we consider it desirable that reductions be made on the more inferior dairying lands and on the grazing lands.

We therefore recommend that the Board be authorised to review all capital values and rents so that they may be fixed in correct relation to each other, and in all cases be based on the quality and productive capacity of the land.

## FREEHOLD TENURE V. PERPETUAL LEASE.

I.—
Difference between annual rents on Agricultural Farms and Perpetual Leases.

Allied to capital values and rents is the question of tenure, because if the Government decides to allow conversion of the tenure of the lands in this settlement from Perpetual Lease to Agricultural Farm Selection, the rents on the new basis will be different. As already stated, rents on the Perpetual Lease system are  $1\frac{1}{2}$  per cent. of the capital value. On the other hand, the purchasing price of Agricultural Farms is paid by the Crown tenant, in annual instalments as rent, over a period of thirty years; during the first twenty years the annual rent is one-fortieth, or  $2\frac{1}{2}$  per cent. of the total purchasing price, and during the remaining ten years it is one-twentieth, or 5 per cent. of the total purchasing price. These payments complete the purchase of the land, and entitle the selector to a Deed of Grant.

II.—
Merit of
Freehold v.
Perpetual
Lease is a
political
question.

The merit of Freehold v. Perpetual Lease is a political question which it is not our function to discuss, for it is a well recognised constitutional maxim that permanent officers of the Crown should not engage in political controversies, nor publicly comment on any matter affecting their Departments, which is a current political issue in the country. We intend to observe that maxim.

The late Government, which founded this settlement, adopted the perpetual lease tenure as a matter of policy. If that system is continued it is necessary, as explained above, that the lands be revalued. however, the present Government decide to allow conversion to freehold it will be still necessary to review and reduce the value of the lands so that the annual rents, payable as instalments of purchasing price, may be fixed at a fair economic amount in each case.

Before leaving this subject it only remains for us to record the fact III. that the majority of Crown tenants on this settlement who expressed their views on the question prefer that their selections be held under a freeholding tenure rather than under the perpetual lease system.

Farm or freeholding tenure.

#### WATER FACILITIES.

When this country was used for grazing, and was divided into large I.paddocks for that purpose, the natural water supply, augmented by a few wells, was sufficient for all purposes. When it was divided into small holdings, however, the natural water supplies were confined to comparatively a few blocks, and it was necessary to obtain artificial supplies for the remainder.

To aid settlers in locating underground supplies of water and in II.sinking wells and sub-artesian bores, Government assistance was offered. Government The officers of the Irrigation Commission advised against the putting down granted. of earth tanks in this settlement, on the ground that bores gave a better and cleaner supply of water, and because of the non-holding nature of the ground in places. Wells and sub-artesian bores were therefore concentrated on, and little has been done in the way of putting down tanks.

Arrangements were made by the Minister for Lands, through the agency of the Irrigation Commission, to sink bores and supply equipment, on the application of settlers, subject to the following terms and conditions :-

- (1) The settler was to take over the water facility at its actual cost, provided that no settler would be charged more than £300—that is, no matter what the bore might cost, the settler's maximum liability would be £300; any amount in excess of that would be a loss to the Crown.
- (2) Windmills or engines, and troughing were to be supplied to the settler at actual cost.
- (3) Interest and redemption payments were to be made by the settler, in the case of the bore over a period of 20 years, the redemption payments to start after the third year, and in the case of the equipment over a period of 10 years, redemption payments to start after the second year. Interest and redemption payments would amount to £8 16s.  $0\frac{1}{2}$ d. per cent. for the bore and £15 6s. 5d. per cent. for the equipment.

III.— Method adopted. Much of the country presented no difficulty in the matter of subterranean water supplies, but some of it, particularly the Mulgeldie scrub area, was notoriously difficult. The method adopted was for the Government Water Finder to choose a site on which the officers of the Irrigation Commission sank the bore. The work was entirely controlled by the Irrigation Commission, and the full cost thereof was charged to the Lands Department, which, in turn, took a mortgage over the selection providing for repayments as outlined above.

IV.—
Quality of work done.

We are satisfied, from the evidence, that the quality of the material and workmanship in these bores and equipments is quite satisfactory. Only a few specific complaints were made to us, and these are being departmentally considered.

It was also complained by several settlers that certain items of the equipment were of a better standard, and consequently cost more than the price at which suitable articles of lesser quality could be obtained. We have no doubt that this is correct, but when ten years' repayment terms are allowed the equipment has to be of high quality so that it will stand up to constant use over that period. No settler could obtain the equipment supplied him by the Irrigation Commission at a less cost than he is charged.

V.— Weakness of method. This method of assisting the settler to provide a water facility may seem admirable, yet it has a great and serious weakness.

Many Crown tenants are willing to make contractual obligations with the Crown, intending at the first opportunity to try and obtain relief from them. They know that the Crown is interested in their welfare and is not likely to be unduly harsh if default is made in payments. They know that the Government is elected by the people, and they rely on the influence that the power of a vote can sometimes secure. Nothing could be more dangerous to the success of closer settlement schemes, under democratic Government, than this tendency which many small settlers have of entering lightly into contractual obligations with the Crown, and then at the first opportunity trying to escape their individual obligations by passing them on to the community. This is a modern tendency, and it must be dealt with departmentally with a strong hand. Too much "spoon feeding" will never make a successful settler, rather it produces a discontented, grumbling, and unreasonable tenant, whom nothing will satisfy, and all administration displeases.

VI.—
Water
charges
overcapitalise
some blocks.

And yet, no matter what motive may have induced Crown tenants voluntarily to undertake these obligations, we are forced to the conclusion that some of the water charges over-capitalise some of the blocks. If obligations are to be enforced it is necessary that they be such as can be economically borne by the tenant. We cannot see how an average tenant

## THE TOWNSHIP OF BILOELA, CALLIDE VALLEY.



The Public Hall at which the Board conducted its investigation.



The main street, Biloela.



The main street, Biloela.

"The progress that has already been made, and the towns that have been established throughout the area, speak well for the energy and enterprise of the people, and, in the course of time, there is no reason to doubt that this great new district will compare favourably in prosperity with the older closer settled districts of the State."—Page 15.

Face Page 28.

can afford to pay, on a small block, £300 for a bore and £200 for equipment, on the terms charged. The interest and redemption payments would amount to £26 8s. for the bore and £30 12s. for the equipment, or a total water charge of £57 per annum. In addition to this the settler would have to pay rent, rates, improve the land, and probably pay interest and redemption on an Agricultural Bank loan. It cannot reasonably or economically be done.

Instead of a hypothetical case we will give some actual examples.

VII.-Illustrations of over-capitalisa-

Portion 103, parish of Selene, is a scrub block comprising 149 acres. Its capital value is £1 7s. 6d. per acre. The annual rent, on the basis of 1 per cent. of the capital value, amounts to £3 ls. 7d., or approximately 5d. per acre. The cost of the bore to the selector is £300, and of the equipment £192, making a total of £492, which equals a capital cost over the whole block of £3 6s. per acre. His interest and redemption charges now payable amount to £55 16s. 5d., or 7s. 6d. per acre per annum.

Portion 19, parish of Tellebang, is also a scrub block. It comprises 161 acres. The capital value is £2 10s. per acre. The annual rent amounts to £6 0s. 11d., or 9d. per acre. The cost of the bore to the selector is £300, and of the equipment £357, making a total of £657, or £4 ls. 7d. per acre over the whole portion. The interest and redemption charges now payable amount to £81 2s., or 10s. 1d. per acre per annum.

Can there be any doubt that some blocks have been over-capitalised?

In regard to earth tanks we are of the opinion that they have not vin.been sufficiently tested. Many selections have good catchments, and the Board is satisfied that the subsoil in a large number of the blocks will hold water well.

of earth tanks not sufficiently tested.

The present price, locally, for the construction of earth tanks is 2s. per cubic yard. If a number of tanks were to be put down it is probable that tenders could be obtained at 1s. per yard. On this basis the cost of clearing the site, constructing a 2,000-yard tank, and necessary silt tank and drains, would be about £150. This would provide a satisfactory and cheap water supply for a selection. In the provision of future water facilities we think that more attention should be given to the possibilities of earth tanks.

A schedule giving in detail particulars of water facilities provided IX. for settlers is contained in Appendix E. The depth of wells ranges from 22 feet to 70 feet, and of bores from 36 feet to 666 feet. The cost of the wells and bores varies from £26 to £498. The cost of the equipment varies from £35 to £357. The total amounts which the selectors are required to take over on mortgage in respect of water facilities, including equipment, vary from £137 to £657.

Particulars of water

X.—
Total Crown
expenditure
to date on
water
facilities and
equipments.

The total Crown expenditure to 31st March, 1929, on water facilities and equipments, including plant, was £73,760 4s. 6d., made up as follows:—

ws :—	£ s. d.	£	s. d
Construction of water facilities	in a new real state of	53,806	6 6
Stores	and the man	3,524	3 3
Plant	ne solim	9,419	2 4
Administration—			
Salary and expenses	5,140 1 4		
Fares and freight	177 7 9		
Miscellaneous (including wet weather pay)	3,597 2 2		
Car	498 14 1		
Holiday pay	946 6 2		
	10,359 11 6		
By transfer to individual water facilities (7½ per cent.)	3,348 19 1	m 010	10 ~
	The same Films	7,010	12 5
Total	S. Soule	£73,760	4 6

X1.— Amount covered by settlers' mortgages.

Mortgages have been executed by selectors to date covering 235 bores or wells, and amounting to £45,433 8s. 3d. Further mortgages are in course of execution. Particulars are as follows:—

	£	8.	d.
Cost of bores or wells	22,643	16	4
Less amount borne by Crown	1,568	6	9
	21,075		
Cost of equipments	24,357	18	8
Total	£45,433	8	3

235 bores or wells cost the Crown £22,643 16s. 4d. (average £96 7s. 2d.). 235 bores or wells cost selectors £21,075 9s. 7d. (average £89 13s. 7d.). 148 equipments cost selectors £24,357 18s. 8d. (average £164 11s. 7d.).

XII.— Loss incurred by Crown. The amount of loss incurred by the Crown to date in the provision of water facilities totals £14,519 9s. 6d., or 19.5 per cent. of the total expenditure. This is made up as follows:—

Unsuccessful bores	5,940	s. d.	
Expenditure in excess of amount charged to selectors	1,568	6 9	
Difference between actual cost of supervision and amount	nt		
charged to selectors	7,010	12 5	
Total	£14,519	9 6	

A list of the unsuccessful bores, with reason for failure in each case, is given in Appendix F.

XIII.—
Overhead
costs are too
high.

It will be noticed that the overhead costs in connection with these water facilities, including wet weather and holiday pay, are high, amounting to approximately 20 per cent. of the total outlay. This, however, is not all charged to the settler. He pays overhead costs at the rate of  $7\frac{1}{2}$  per cent. on the cost of construction; the balance is a loss to the Crown. That loss to date has amounted to £7,010 12s. 5d., which must be regarded as unsatisfactory.

There are a number of reasons for this high overhead cost, but the chief one only need be referred to. At the outset of this scheme the Government decided that the Irrigation Commission, acting as agent for the Lands Department, should put down these bores. This decision was merely in conformity with the general Government policy that there should be no duplication or overlapping of departmental activities or of staffs. Ordinarily, it is a perfectly sound principle. But in this instance the Lands Department already had Public Estate Improvement Staff and gangs operating in the area and all necessary administration machinery in connection therewith. The establishment by the Irrigation Commission of another working staff, separately and independently controlled, meant further administrative machinery and additional overhead costs.

If the Irrigation Commission's staff operating in the area were temporarily transferred to the control of the Land Administration Board, while engaged in this special work for which the Board must pay, the Board would be able to arrange complete co-ordination between the two sections, utilise all employees to the best advantage, dispense with duplication of staffs, and generally reduce overhead costs.

This matter is again referred to in a later section of this Report dealing with Departmental Administration, and as it involves a question of Public Service organisation we have also dealt with it, in greater detail, in a separate memorandum addressed to the Public Service Commissioner.

In regard to water facilities (including equipment) we make the following recommendations:—

Recommendations in regard to water facilities.

- (1) That the Land Administration Board, which has to meet all the costs in connection with water facilities, be given control of this work. For this purpose it is suggested that the water facility gangs and staff now operating in the Upper Burnett and Callide be placed, while engaged on such work, under the direction and control of the Board. This will considerably reduce overhead expenses.
- (2) That, notwithstanding the fact that mortgages have been executed, the Board be authorised to write down water costs to such amounts as will, in the judgment of the Board, be a fair capitalisation for each block. This will probably mean that a further sum of about £2,000 will be written off.
- (3) That when water costs have been adjusted in this manner, the payment of interest and redemption by the settler be strictly enforced.
- (4) That to provide cheap and satisfactory facilities for selectors in future, more attention be given to the possibilities of earth tanks.

#### ROADS AND BRIDGES.

I.—
Early
settlement
and roads.

The lands of the Upper Burnett were first used for grazing more than seventy years ago when the territory formed part of the Colony of New South Wales. They have been in continuous occupation ever since. As time went on, roads were constructed and creek crossings were made to the extent that was necessary for the effective use of the country for cattle grazing. Then, at last, came this settlement scheme which altered the whole aspect of road communication.

II.—
Need for additional roads and bridges.

With the advent of closer settlement entirely new roads had to be constructed to serve the new subdivisions and enable the settlers to get their products to the railway. New bridges, causeways, and crossings were also needed. Whereas, formerly, it was of little economic importance if a cattle grazier were isolated for a few weeks owing to the state of the roads and crossings, it is necessary under the altered settlement conditions that settlers should have daily, or almost daily, communication with the railway.

III.— General road policy and expenditure. The work of constructing the necessary roads and bridges was undertaken by the Public Estate Improvement Section of the Lands Department. The roads are intended to give reasonable pioneering access only—that is, they are cleared, where necessary formed with a grader, and rolled, but, except in a few exceptional places, they are not gravelled. The bridges, however, are first-class structures.

The cost of this work is, in the first instance, borne entirely by the Crown, and is defrayed from a parliamentary vote. Over a long period of years repayments are made by the selectors through the "loading" which is added to the capital value of their lands. When the roads and bridges have been constructed they are handed over to the Local Authorities, and the Crown accepts no further responsibility in respect of them.

Since the inception of the scheme five bridges and causeways have been built, and 634 miles of road constructed. Expenditure has been as follows:—

	Roads.	Bridges.	Total.
1923	\$\frac{\psi}{6,237}\$ \$\frac{d}{10}\$ \$\frac{1}{1}\$ \$\frac{1}{11,840}\$ \$\frac{4}{4}\$ \$\frac{1}{12,453}\$ \$\frac{18}{18}\$ \$\frac{1}{1}\$ \$\frac{1}{10,381}\$ \$\frac{12}{12}\$ \$\frac{1}{11}\$ \$\frac{1}{10,121}\$ \$\frac{5}{5}\$ \$\frac{0}{16,856}\$ \$\frac{7}{7}\$ \$\frac{3}{700}\$ \$\frac{2}{2}\$ \$\frac{11}{2}\$ \$\frac{\psi}{2}\$ \$\frac{1}{11}\$ \$\frac{\psi}{2}\$ \$\frac{1}{11}\$ \$\frac{\psi}{2}\$ \$\frac{1}{11}\$ \$\frac{\psi}{2}\$ \$\frac{1}{11}\$ \$\frac{\psi}{2}\$ \$\frac{1}{12}\$	£ s. d.  696 19 5 824 9 10 1,411 12 2 2,381 14 1 1,617 16 5 £6,932 11 11	£ s. d. 6,237 10 1 11,840 4 1 13,150 17 6 11,206 2 9 11,532 17 2 19,238 1 8 5,317 19 4 £78,523 12 7

Bridge figures include only large bridges. All culverts and crossings are charged to "Roads."

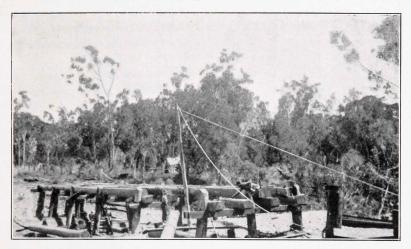
IV.—
Plant and gangs
employed and general standard of work.

The road work was commenced without adequate machinery, and much of the early construction was of an inferior standard. This short-coming, however, has since been remedied, and modern road-making plants are now in use.

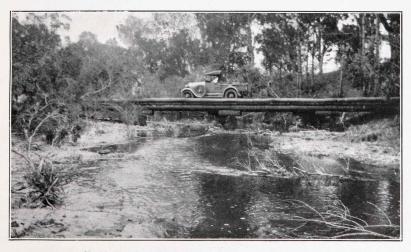
#### NEW BRIDGES ON THE SETTLEMENT.



Bridge over Three Moon Creek, near Monto, Upper Burnett.



Kroombit Creek bridge under construction, Callide Valley.



Mack's Crossing, Monal Creek, near Monto, Upper Burnett.

"With the advent of closer settlement entirely new roads had to be constructed to serve the new subdivisions and enable the settlers to get their products to the railway. New bridges, causeways, and crossings were also needed. Whereas, formally, it was of little economic importance if a cattle grazier were isolated for a few weeks owing to the state of the roads and crossings, it is necessary under the altered settlement conditions that settlers should have daily, or almost daily, communication with the railway."—Page 32.

Face Page 32.7

The machinery and plant on hand, exclusive of the ordinary small tools and equipment, comprise the following:-Two Wehr graders, two 5-ton rollers, three utility trucks, three 1-ton trucks, and two pile-driving units, making twelve oil-driven engines in all, sixteen horses, six drays, and necessary road ploughs and scoops. There is also the necessary equipment for bridge building.

All works are carried out under the direction of the Engineer, who is assisted by three experienced Field Assistants with headquarters at Mulgeldie and Biloela. There are eight road gangs, four bridge gangs, and two road machinery gangs, making fourteen gangs in all, comprising some eighty men. Each gang is controlled by a competent ganger.

In travelling throughout the settlement we travelled over 1,000 miles v.of roads. We therefore traversed most of the road systems in use. inspections commenced the week following heavy rains of about 7 inches. The roads were therefore seen at their worst. On the whole they were in reasonably good condition for a pioneering settlement, but in some places they were very boggy, and a few instances were quoted to us of settlers losing their cream for some days, as the condition of the roads did not permit their getting it to the railway.

The Board forthwith recommended, notwithstanding that the roads vi. in question had been handed over to the Local Authorities, that the bad Repair work undertaken sections be immediately repaired at Government expense. The then Govern-forthwith. ment approved of this recommendation; the work was commenced at once and is still proceeding.

The Upper Burnett Area is mostly in the Shire of Eidsvold; a VII. small portion of it is in the Mount Perry Shire; the Callide Area is in Local These three Shire Councils, with headquarters interested. the Shire of Banana. outside the settlement, at Eidsvold, Mount Perry, and Banana respectively, must undertake the responsibility of maintaining all the roads on the settlement when they have been completed. Of the three Shires, Eidsvold contains much longer mileage of new roads, and will, consequently, have to carry the heaviest burden, but, on the other hand, will have the largest revenue.

After the adjustments we are recommending with regard to the settlement have been carried out, viz.:-

- (a) Repairs to bad sections of roads;
- (b) Increased areas to settlers;
- (c) Review of capital values and rents;
- (d) Review of water facility charges in special cases;

we think that the Shire Councils will have no difficulty in collecting from the settlers an equitable amount of rates that should be sufficient, without Government aid, to maintain the roads.

VIII.—
Suggested change of Shire head-quarters.

Eidsvold is, we think, not the most satisfactory centre for controlling the Local Government affairs of the larger portion of this new district. In its mining days Eidsvold was a town of considerable importance, but with the decline of mining the town declined, though it continued to exist as the centre of a pastoral or grazing district.

The land around Eidsvold is inferior to the land further north comprised in the Upper Burnett, and consequently is not capable of much development.

The town of Monto, on the other hand, is in the centre of the new settlement, surrounded by rich land with great potential productivity. It must undoubtedly be the chief town of the district. We think, therefore, that consideration should be given to shifting the Shire Headquarters to the heart of the new settlement at Monto. Indeed if the Government would consider the abolition of the Eidsvold Shire and the creation of a new Shire of Monto, embracing all the lands in the settlement, such action would materially advance the welfare of the district.

IX.—
Mount
LookerbieMonto road
versus
railway.

As explained elsewhere the railway from Rockhampton is now open to the town of Thangool, which is about sixty miles north of Monto by road. The rails have been laid beyond this point, and earth works constructed to Mount Lookerbie, seven miles beyond Thangool, but all work has been stopped for some time, and this section is not yet available for traffic. Before work is proceeded with beyond Mount Lookerbie it is recommended that the merits of a good road versus a railway be carefully considered.

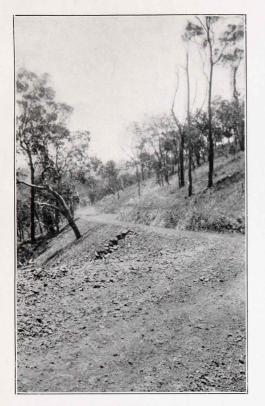
A good road would cost less than half the amount needed for a railway, its cost of maintenance would also be less than half, while the users of the road, unlike the railway customers, would provide the whole of their own running costs. The extension of the railway would not materially affect the land settlement position, nor would it add to railway revenue, as all the production from the intervening lands would be sent to the nearest railway station in any event.

X.—
General recommendations re roads.

On the subject of roads and bridges we recommend as follows:—

- (1) That sections of the Public Estate Improvement constructed roads, that have proved untrafficable in wet weather, be re-formed and repaired by the Public Estate Improvement Section of the Department without contribution from the Local Authority, but the Local Authority to be responsible for all future maintenance.
- (2) That when allotments in new townships are being offered for sale by the Government, the street fronting such allotments be cleared and formed by the Public Estate Improvement Section.
- (3) That the annual Parliamentary Vote for all Burnett works, including roads and bridges, water facilities, and pear destruction, be increased by £10,000, making £50,000 in all.

# GRADED ROADS OVER RIDGY AND MOUNTAINOUS COUNTRY.







Different views of roads between Monto and Kalpowar, Upper Burnett.

This will enable the work to be speeded up, will release the Government from all liabilities at an earlier date, and will prove more economical in the end.

- (4) That, on economic grounds, consideration be given to the construction of a good road or a main road from Monto to Mount Lookerbie in preference to a railway.
- (5) That consideration be given to making Monto the headquarters of Local Government for the Upper Burnett.

## OPERATIONS OF THE AGRICULTURAL BANK.

The State Agricultural Bank has furnished us with the following I.statistics illustrative of the Bank's operations in the Upper Burnett and for advances Callide :-

approved refused.

Total applications for advances received since inception of scheme, i.e., from 1st January, 1924, to 31st March, 1929	7	£ 176,523 88,131 42,364 1,023 1,780

An advance of £9,000 has also been granted to the Port Curtis Co-operative Dairy Association, Ltd., for the erection and equipment of a butter factory at Monto.

We found that a number of settlers were under the impression that II. the Agricultural Bank had a monopoly of this business, that the law would not allow settlers to obtain advances from other financial institutions on the security of a mortgage over their selections. It was obvious that some of them were chafing under this supposed restriction. We pointed out that their interpretation of the law was incorrect, that the Minister has a discretion in allowing mortgages to institutions other than the Agricultural Bank, and further, we gave a definite assurance that, if bona fide applications were made for permission to obtain money from any recognised financial institution on mortgage, such permission would be granted.

Agricultural

#### IMMIGRATION SETTLEMENT.

The Upper Burnett and Callide Valley has already received attention I. as a possible field for the settlement of migrants.

Previous reports on Immigration Settlement.

The present Minister for Trade and Customs, the Hon. H. S. Gullett, when he occupied the position of Commonwealth Superintendent of Immigration in Australia, was sent, in 1921, by the then Commonwealth Prime Minister, the Right Hon. W. M. Hughes, P.C., to report on the suitability of the area for that purpose. The land was then being used for grazing only.

Mr. Gullett traversed the area from north to south, and spent a few days making general inquiries and investigations in the district. On his return to Melbourne he submitted to the Commonwealth Parliament a report on his investigations, and set out his conclusions, inter alia, as follows:—

- (1) In its soil, rainfall, elevation, and geographical proximity to the coast, the area is ideal for subdivision into small agricultural and grazing farms. Only railway communication and settlers are necessary to make it one of the most profitable rural localities in Australia.
- (2) Only the great rural wealth of farming lands possessed by Queensland, political controversy as to the routes of the proposed railways, and the lack of money have withheld the area from closer settlement.
- (3) An area with the same natural conditions, equal producing capacity, and located in New South Wales or Victoria, would, if served by railways but in its present undeveloped state, have an average value of at least £8 or £10 an acre, including its grazing portions.
- (4) The area—by its richness, its magnitude, and the simple methods by which it could be pioneered—is ideal for settlement in part by carefully selected immigrants.
- (5) As to climate, he expressed the opinion that "The Upper Burnett and Callide Valley country is, thanks to its elevation, as congenial to white people as any country in the Commonwealth."

II.—
Land
Administration Board is not the
Authority
in charge of migrant
settlement.

The Land Administration Board is not the authority for framing settlement schemes for migrants. The Commonwealth Development and Migration Commission acts in association with a "State Consultation Committee on Developmental Proposals." This Committee is composed of representatives of several Public Departments, including the Lands Department, and is under the chairmanship of the Minister for Agriculture, and with a Deputy Chairman, the Under Secretary for Works. It is charged with the function of formulating developmental, settlement, and migration proposals for investigation by the Commonwealth Commission. In the circumstances we merely express our opinion that, if migrant land settlement is desired in Queensland, the lands in the Upper Burnett and Callide Valley will be found as suitable for the purpose as any other available land in Queensland.

In framing any scheme, however, it would be necessary to see that the rights of the Australian settlers already established in the district to obtain additional land where it is needed are fully protected.

#### PRICKLY-PEAR LAND.

I.—
Some of
Callide lands
are pear
infested.

The Upper Burnett Lands are almost entirely free of pear, but the northern and western boundaries of the Callide Valley Lands abut on pear-infested country, and parts of this section are infested. To date the Department has spent £10,501 in destroying pear by poisoning on this area, so as to prevent its encroachment on to the valuable closer settlement lands.

As the administration of the Callide Valley is under a special Act, these lands are excluded from the jurisdiction of the Prickly-pear Land Commission.

Notwithstanding the provisions of "The Upper Burnett and Callide II.-Land Act of 1923" we recommend that all pear-infested land in the Callide Valley be dealt with by the Prickly-pear Land Commission under the Prickly-pear Land Acts. That is, we recommend that these lands be Prickly-pear Land Acts. made available for settlement under the same terms and conditions as if they were ordinary infested Crown lands, and did not form part of a special settlement scheme.

be dealt with under the

#### DEPARTMENTAL ORGANISATION.

Since the inception of this settlement scheme the Upper Burnett I.has been included in the Gayndah Land Agent's District, under the jurisdiction of the Land Commissioner stationed at Maryborough, and the outside area is uneco-Callide Valley in the Rockhampton Land Agent's District, under the nomical and jurisdiction of the Land Commissioner at Rockhampton. As explained elsewhere, in order that the Board might keep in close touch with the administration of the area, a Field Superintendent was appointed in April, 1928, and was stationed at Eidsvold. This town was chosen because of the Public Office and private house accommodation there available.

Our inquiry has forced us to the conclusion that further efforts to administer this area from a place outside, or to postpone the formation of a separate Land Agent's District, would be both uneconomical and unwise.

To provide efficient administration we propose the following:-

ments.

- (1) All the land in the Upper Burnett and Callide Valley to be gazetted a separate Land Agent's District under the name "Monto Land Agent's District."
- (2) The Monto District to be in charge of a Land Commissioner, with a Land Agent stationed at Monto. The Land Commissioner to have general supervision over all administrative work on the settlement.

A Lands Office will be needed at Monto. purpose part of the large public offices at Eidsvold, which are only partly used, could be pulled down and re-erected on the new site.

- (3) The Engineer in charge of road and bridge construction to be stationed at Monto, so that he may exercise a close supervision over all work, and expedite its completion.
- (4) The work of the Public Estate Improvement Section and of Water Facilities to be co-ordinated throughout by the Board taking over the Water Facility organisation, and amalgamating it with the Public Estate Improvement organisation. At present these two organisations are entirely independent of one another.

In the opinion of the Board this rearrangement would produce III. greater efficiency in Departmental work, with corresponding public satisfaction. Not only would it be more in accord with business principles but it would actually be more economical than the present arrangement.

direct to Public Service Commissioner.

As Departmental reorganisations of this nature are made by the Government on the recommendation of the Public Service Commissioner, Mr. J. D. Story, I.S.O., we have addressed to the Commissioner a separate memorandum setting out details of the present and proposed staffs, and also illustrating the economies that may be effected as well as the greater efficiency that will accrue. Such a memorandum, dealing as it does with the position of individual officers and employees, is not suitable for inclusion in this public Report.

IV.—
The question of accommodation for officers.

As Monto and Biloela are new townships, the question of accommodation for Public Officers stationed there will arise. The erection of the necessary Public Offices will be a matter for the Works Department. As already stated, consideration might well be given to removing part of the large unused public building at Eidsvold, and re-erecting it at Monto.

The matter of private housing accommodation is somewhat difficult. If the late Government's policy of not providing houses for its Lands Officials in country districts is adhered to by the present Government in the case of this new settlement, where no available housing accommodation at present exists, officers may be accommodated in one of four ways:—

- (a) Live at one of the Department's construction camps;
- (b) Live at one of the hotels or boarding-houses;
- (c) Acquire some land and build for themselves;
- (d) Arrange with some business man in the town to erect a dwelling and lease it.

In a growing township with an assured future (c) abovementioned probably would be the most satisfactory course to follow. All the land sold to date, however, has been made available under Perpetual Lease tenure, and Lands Officials are precluded from acquiring any such land in the districts where they are working. This restriction would need to be abrogated in so far as one town residential allotment is concerned.

#### ACKNOWLEDGMENTS.

I.—
Acknowledgment for assistance.

Mr. A. Hollingworth, Clerk in Charge of the Land Settlement Inquiry Section, acted as Secretary to the Board for the purposes of this Investigation. Mr. F. Williamson (*Hansard* staff) acted as Official Reporter.

It is due to these Officers that we record our appreciation of the ability and industry with which they discharged their duties.

W. L. PAYNE, Chairman,
A. G. MELVILLE,
F. D. POWER,

Members of the Land
Administration Board.

#### Appendix A.

[Extract from "London Times" of 14th September, 1928.]

## IMPERIAL AND FOREIGN NEWS—SETTLEMENT IN AUSTRALIA.

#### (From our Perth Correspondent.)

It is more than a year since Mr. M. F. Troy, after his appointment as Minister of Lands and Group Settlements, toured the group settlement areas of Western Australia and acquainted settlers with the policy of his Government. An article, published immediately after in "The Times," outlined his difficulties and the prospects of the group settlement experiment at that date. It was said that there seemed little likelihood that the scheme would prove a financial success within a measurable period, but it was suggested that it might be the less tangible results of the most ambitious of all Australia's settlement schemes that would justify it in the long run.

Since that date a new executive Board to control the scheme under the Minister has been appointed; much bad land, hastily selected at the scheme's initiation, has been abandoned; and the number of holdings has been correspondingly reduced. Last year Mr. Troy made his announcement of policy to approximately 2,300 settlers: this year he has made another important statement to the bare 1,700 remaining. In the interval rather more than 600 settlers have given up their holdings. The reclassification of holdings was undertaken with the object of giving every settler who remained under the scheme a good opportunity of becoming a self-supporting and independent dairy farmer. This reclassification was completed several months ago, but the number of settlers who are self-supporting or independent seems, unhappily, to be as small as ever. The taxpayers in Western Australia strongly wish to see expenditure on group settlements very much curtailed, and Mr. Troy's new announcement of policy reflects this desire.

#### COST OF SCHEMES.

Exact figures are not at the moment available, but it is known that the total expenditure up till now upon group settlement in Western Australia (including roads and drainage) is about £7,500,000. Seventeen hundred settlers remain, none of whom is yet wholly independent of the taxpayers' help. The average amount to be spent on each of the remaining holdings must therefore probably exceed £4,000. The unfortunate Peel Estatean area close to Perth which has proved quite unfit for settlement—has cost approximately £2,250,000, and there are only 180 settlers left on it; so it is unfair to average the expenditure over all areas. None the less, there are holdings in other areas, which have cost between £5,000 and £6,000, which are not yet supporting their settlers. Western Australia, with a total population of less than 400,000 and a total taxpaying population of less than half that number, cannot continue to carry so heavy a load for results so scanty.

These facts prompted the Minister (advised by the Group Settlement Board) to announce his new policy recently to a meeting of settlers. The Cabinet will decide on the amount of capitalisation upon which each settler is to pay interest and ultimately principal; and settlers will receive no further advances for routine

farming operations as soon as they reach the standard of productivity represented by the possession of ten It has been shown that the average amount expended in developing each holding under the scheme exceeds £4,000. So heavy an expenditure is the direct result of the policy of paying settlers for the development of their own holdings, as if they were labourers on a basis of weekly hire. Some such scheme was inevitable, inasmuch as it was necessary to give settlers some means of support until their holdings should become reasonably productive; but in practice the system has proved both pernicious and disastrous. Settlers have failed to realise that the properties they were farming were ultimately to become their own, and have been obsessed by consideration of the amount of "wages" that could be earned week by week and month by month. The system produced a state of mind which regarded payment for farming operations accomplished as more important than the development of holdings which should have been looked upon as personal property.

#### A HEAVY LOSS.

But no holding under the scheme can be expected to return, even in the hands of a capable dairy farmer with his heart in the job, interest upon a capitalisation of £4,000. The Cabinet will probably write off approximately three-quarters of the total expenditure on group settlement. A loss of between £4,500,000 and £5,000,000 is a very grave matter to the taxpayers of a small community, but it might be faced with relative equanimity if the 1,700 remaining settlers were finally established. They are not yet finally established, and it is only too likely that a number of them will abandon their holdings, as 5,000 of their predecessors have done, when they learn the exact figure upon which they have to pay interest. It will be very difficult to find men to put in their place, as it would be futile to put inexperienced men upon developed holdings, and almost impossible to get experienced men to take up holdings which at best can show only a bare margin of subsistence when interest has been paid on a capitalisation which will still be unduly high in comparison with market values.

Assistance to settlers is to cease when they have ten cows, and thereafter only such developments will be subsidised as are likely to result in permanent improvements of the holdings. Money is advanced on these conditions to new settlers by the Agricultural Bank of Western Australia, and the original Group Settlement Act provided that group settlers should be transferred to the control of the Agricultural Bank when they had reached an unspecified stage of productivity. It is now intended to keep "ten cow" settlers under the Group Settlement Board on Agricultural Bank conditions. The proposal is an improvement on the original, for the Group Settlement Board has ample dossiers about both settlers and holdings.

The Ministry will be open to serious criticism if costs are permitted to mount again after this readjustment. For seven and a-half years the holdings have been continuously developed in such matters as clearing, fencing, and draining, and there should not now be many more improvements of that kind to be done on a large scale.

## Appendix B.

RETURN OF OPERATIONS AT THE MUNDUBBERA BUTTER FACTORY (THE MARYBOROUGH CO-OPERATIVE DAIRY ASSOCIATION LIMITED) FOR THE YEAR 1928.

		М	onth.			Butter Manufactured.	Amount paid Suppliers.	Price per lb.	Number of Suppliers.
						Lb.	£ s. d. 16,966 9 9	s. d.	571
January						 318,810	15,379 10 2	$\begin{array}{ccc} 1 & 1 \\ 1 & 2 \end{array}$	598
ebruary						 275,322		1 3	582
<b>L</b> arch						 272,102	20,000	1 2	563
pril						 175,310	10,068 1 10		537
Iay						 129,928	8,539 11 3	1 4	
une						 88,062	5,883 15 11	1 4	516
uly						 90,710	6,731 19 5	1 6	498
ugust		V. 1				 105,970	7,965 6 10	1 6	524
eptember		T				 111,462	8,291 0 8	1 6	542
ctober						 122,491	8,573 17 5	1 5	553
ovember						 178,870	12,548 17 2	1 5	600
December						 240,536	16,919 8 7	1 5	609
	T	otal		1.90	11	 2,109,573	134,703 4 3		1000
	М	onthly	averag	ges		 175,7973	$11,225$ 5 $4\frac{1}{4}$		557.75

## Appendix C.

## ALPHABETICAL LIST OF WITNESSES.

Hart was reducing	Nam	e of W	itness.					Approximate Area Interested in.	Place at whi Evidence Giv		Page of Evidence.
Anger, Charles Augustus								Acres.	M		272
Anskenewiz, Heinrich		1.0						6,000	Monto		
Anskenewiz, Waldemar Ad	-16							250	Abercorn		144
								352	ditto		143
								1,190	Goovigen		651
Ashton, Percy								343	Mulgeldie		214
Avard, James Justin								520	Eidsvold		78
Avis, Joseph Lawrence								348	Mulgeldie		194
Bailey, Aubrey Frank Char								1,088	Biloela		483
Bailey, Norman								407	Waratah		422
Bailey, Thomas Guthrie								1,100	Monto		289
Baldwin, Arthur Egbert						4		296	Kalpowar		347
Bale, Horace Arnold Victor								197	Goovigen		642
Ball, Henry								688	Kalpowar		358
Ball, John								1,490	ditto		359
Ball, Joseph								710			361
Barbour, Henry Albert									ditto		
Barlow, Daniel Joseph								1,395	Waratah		421
Barrett, Colin Stuart (per S	Stuart	Andr	ow Dow					300	Goovigen		646
Barrett, Stuart Andrew	···							2,470	Thangoe!		549
Bartlett, William Henry								7,500	ditto		549
Basson Edward James on	habal	e -e T						557	Abercorn		139
Basson, Edward James, on Bassett, Frederick				Group				719	Mulgeldie		186
								380	Mundubbera		34
Bate, Arthur Garfield Tuck Batten, Arthur	er ·		, ,					259	Monto		237
								727	Mundubbera		13
Bayntun, Felix Frederick								620	Eidsvold		82
Beaton, William								319	Waratah		398
Beck, Martin Petersen						419 114		581	Eidsvold		73
Becker, Ernest Valentine								800			
Bell, Percy James									Abercorn		157
Benecke, Johann Theodor	Freder	iel C	anl					486	Mulgeldie		184
Bestmann, John Henry V	Vator	Find	m Dam		- C T	LIT		466	Abercorn		126
Bevan, Walter Edward, Er	gineer	Pul	lie Esto	to Trees	OLE	ublic L	ands		Biloela		493
Department of Public	Land	lo	nic Esta	ne imp	roven	ient Sec	tion,	1 1 1 1 1 1 1	ditto		503
Bickhoff, Francis Joseph											
Birch, Phillip				2.1				244	Goovigen		629
Birse, Alexander								645	Biloela	74.	462
Birse, Arthur William								324	Kalpowar	90.	345
Black, William James								332	ditto		355
Blee, John Edward								764	Eidsvold		69
								375			49
Boon, George Herbert								200	Mundubbera		
Bowles, Ernest Allen									Thangool		554
Bradley, George Herbert								403	Kalpowar		353
Brennan, Patrick								350	Biloela		432
Bridges, Ernest Henry						٠.		247	Monto		256
Briggs, John William								726	Abercorn		160
Brock, Gerald James								214	Jambin		612
Brown, Cyril Oswald								298	Goovigen		644
Brown, James								254	Biloela		490
Brown, Robert Edward								243	Goovigen		647
,								282	ditto		645
									areed		040

LEG DESCRIPTION	Nam	ne of Wi	tness.					Approximate Area Interested in.	Place at which Evidence Given.	Page e Eviden
ryans, Edward James								Acres.	Waratah	39
udahn, August								221	Goovigen	63
ulow, August Herman		4.1						149	Mulgeldie	20
utler, Andrew, for But	ler G	roup,	John	H. Fal	kiner,	and		1,609	Jambin	60
Richard Wood		160							to the second of the	
ysshe, Percy Shelley								7,248	Eidsvold	
ley, Walter		Per l						640	Abercorn	18
lder, Robert James, Ins		. Agric							Biloela	46
mpbell, John Gordon L		,						50,000	Jambin	5
mpbell, William Blair								7,000	ditto	5
rmody, Charles Stanisla								373	Monto	2
vanagh, Bartholomew								215	ditto	2
vanagh, John								251	Jambin	5
vanagh, Patrick Joseph								247	Monto	5
amber of Commerce andler, Alfred								Deputation 397	D'1 1	3 4
andler, Alfred apman, David; also on	hahal	f of M	nlooldi.	a Local I	Produc	ore' A	eennia.	226	Mulgeldie	1
tion	bellat	1 01 11	uigeiai	e Locai i	Toda	cors 21	ssocia-	220	margerate.,	1
apman, Harry								157	Biloela	4
apman, Herbert Henry								1,198	Monto	2
etter, Richard Edward				par.				250	Biloela	4
rke, William Henry				100				249 1,023	ditto	4 3
wley, Archibald Josiah iff, Clarence James								473	3.5	2
llingwood, Isaac Thoma	e							275	Kalpowar	3
llingwood, Stanley Hard			::					352	Waratah	4
llins, Robert								430	Abercorn	1
llins, Robert William								550	ditto	1
nnolly, William	10.7				:			210	Thangool	5
ok, Herbert								166	Monto	2
ok, John Leslie					6311			433	ditto	2
ok, Leslie John						100		380	ditto	2
oper, James star, John Arthur								304 170	Goovigen Thangool	6
stello, Frederick								640	A 1	5
ulson, James								231	Jambin	5
ulston, Alwyn								159	Mulgeldie	1
x, George Robert								270	Monto	2
ff, Charles								302	ditto	2
llen, John Arthur								320	Thangool	5
llwick, Wilfred								217	Mulgeldie	2
rrier, Michael Frederick					• • •			1,192	Abercorn	1
netz, Sterling Harold								6,900	ditto	1.
ift, Thomas								320	Waratah	4
htler, Frederick George								575	ditto	3
vidson, Joseph James I								176	Mulgeldie	2
llar, Charles James							1.44	178	Biloela	4
ent, Thomas								324 206	Waratah Jambin	5
ckenson, Charles							100	338	TZ 1	3
cker, Albert Thomas ngle, Roy George								3,200	Abercorn	1
bson, Alfred Henry								185	Goovigen	6
cherty, Michael								355	Monto	2
nald, Early William								643	Goovigen	6
ugall, Andrew George								307	Waratah	4
ugall, Roy Lewis								290	Waratah	4
yle, Felix Frederick								622	Eidsvold	
inkwater, Harold Frank					100			648	ditto	1
ncan, Horace Muir nn, Thomas	• •							4,040 361	Abercorn Kalpowar	1 3
nn, Inomas	Service .				× 4			001	Tanpowar	,
wards, Samuel		1.1						246	Jambin	6
							1.00	786	Mundubbera	19 200
ott, Francis David ott, Robert James, on	habalf	of M	· ·	Chart E	nicti			216 5,836	Biloela	5
erson, David		of Ma			mott			198	Monto ditto	3 3
ery, Jesse, also on beha	alf of	Mulgel	die Lo	cal Prod	lucers'	Assoc	eiation	169	Mulgeldie	1
posito, Salvatore, on								278	Biloela	4
Mazzone ans, Rupert Sydney All								852	Eidsvold	The State of
	pector	Agric	ultura	I Bank			- :-		ditto	1
								634	ditto	
erett, Ernest Willie, Ins	Brown	е								
erett, Ernest Willie, Ins Iconer, John Frederick 1										
erett, Ernest Willie, Ins Iconer, John Frederick I rquharson, Frederick Ja	mes		::				::	302 500	Biloela Waratah	4.
erett, Ernest Willie, Ins lconer, John Frederick I cyuharson, Frederick Ja her, William Arthur ming, James Patrick	mes							302 500 373	Biloela Waratah Biloela	4: 4: 4:
erett, Ernest Willie, Ins coner, John Frederick I cquharson, Frederick Ja her, William Arthur ming, James Patrick ming, James William	mes	::	.:			::	::	302 500 373 560	Biloela Biloela ditto	4:
erett, Ernest Willie, Ins lconer, John Frederick I cyuharson, Frederick Ja her, William Arthur ming, James Patrick	mes		::	::			::	302 500 373	Biloela Waratah Biloela	44 44 44 34 20

				PPC	JII WIA	- 007	000000			
	Nan	ne of W	itness.					Approximate Area Interested in	Evidence Given	Page of Evidence.
CII CIIM 1 C			714 11					Acres.	D:11-	448
Giles, Clifford Gorring Giles, John Victor (per C	Hifford (	Corrin	c Gilos	٠.				1,000	Biloela	448
Gillies, John			g Gilos,		* * * *			189	Jambin	610
Gooch, Gordon Victor Ni	nham							350	Monto	252
Goode, Cedric Fraser								619	ditto	293 406
Goody, Hector Clyde Goody, Marshall								$1,209 \\ 627$	Waratah ditto	406
Grant, Frederick								238	Mulgeldie	193
Gray, Ashton John								196	Biloela	472
Grenier, Ernest Pannell,	Land Co	mmiss	sioner, (	ayno	lah				Eidsvold	109
Hamilton, Robert; also a	ac Chair	man l	Fidovol	I (1).	. Com		5	503		53
Hamilton, Reginald Jame							5	640		114
Hampson, Frederick Ralp								$\frac{640}{1,280}$	7.5	263
Hannay, Elliott William	Davidso				- 11			1,650	A 1	136
Hanvin, Daniel Joseph								244		228
Hardwick, Francis William Harris, Henry Leslie								159 540	3.5	558
Harris, James William								444	XX7 1	388
Havilah, George		1.						220	Mr. 1 1 11	. 226
Hay, Daniel Stewart								1,630		. 357
Hayden, Henry Hyland Heading, William Arthur			• •					333 566	3244	350
Heathwood, Robert Samu				1::				850	XX7 4 - 1-	409
Henderson, Inglis John	151.1								TZ -1	371
Hickey, John Michael								197		. 443
Hickey, Patrick Francis Hill, Cecil Stanley								266	Management	379
Hobson, Herbert Edward								$\frac{263}{320}$	Biloela	. 251 . 455
Hogg, William Dickson								255	Kalpowar	970
Horn, John Houreld, Harry								917	Eidsvold	
Howes, Reginald James								295 237	Monto Thangool	
Hundtoft, Jacob								251	Jambin	619
Hunting, Ernest George								30	Monto	207
Hunting, Thomas Joseph Hunting, Vincent William								640	Kalpowar	
Hutchinson, John								530 260	Waratah Mulgeldie	101
								200	Mulgeldle	. 181
Iredale, Tom George	**	• •			• •	• *	• •	283	Biloela	. 468
Jackson, Edward Dunlop I	Mark							401	Waratah	. 404
Jackson, Elijah								304	Thangool	~0.1
James, John Edward Jameson, John		• •	**					303	Eidsvold	
Jamieson, Thomas Henry								177	Goovigen	. 653
Jamieson Group, per E. J.	Basson							280 719	Jambin Mulgeldie	100
Jarvis, Clarence Frederick				* *				740	Monto	270
Jarvis, William Jones, Aubrey Edward	::		* * .					270	Biloela	100
Jones, Lemmewell			-::			• • •		4,200	Eidsvold	
Joyce, Fitzpierce								338 1,280	Mulgeldie Eidsvold	0.0
								1,200	Eldsvold	96
Kennedy, John								2,388	Abercorn	A CHARLES
Keunne, Ernst August Keys, Arthur	4.								Mundubbera	
Keys, Arthur King, Percival Walter								202	Jambin	200
King, Selwyn Moore								618	Abercorn	7 - 7
Kircher, Michael								215 714	Goovigen	
Kirkham, Ernest William Krause, Charles William								311	Tombin	
Kuhnert, Karl Julius								320	Thangool	
Kurtz, James William								575	Abercorn	
								160	Thangool	556
T T COD										
Lawson, James Gilbert Lehr, Phillip Henry								660	Kalpowar	951
Leonard, Herbert Cyril				•• .				570	ditto	
Lewis, Cyril									Monto	
Litzow, Adolph								344 311	Mulgeldie	215
Local Producers' Associatio Ditto									ditto Biloela	
Ditto	::							ditto	Goovigen	0 - 0
Ditto						7.1		ditto	Jambin	0.7
Ditto									Kalpowar	381
Ditto (per D. Chapman Local Producers' Association									Monto Mulgeldie	
Lucy, Daniel James						٠.		Deputation	Thangool	
*		• •				٠.			Goovigen	0 = 0

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	Nam	e of Wit	tness.					Approximate Area Interested in.	Place at which Evidence Given.	Page of Evidence
feefeeless N. 3 A 1.3 1.1		- 120	No. of Contract of					Acres.		
Macfarlane, Neil Archibald Mack, Alfred John								289	Biloela	487
Mack, Alfred John  Malone, Denis Sylvester					***		- 1.	191 438	Monto	$\frac{241}{230}$
Ialone, Thomas								331	Title	230
farshall, James John								1,675	Kalpowar	356
Iarshall, Rupert Oswald								239	Monto	257
Iathison, Herbert Hastings	š							357	ditto	269
Ieagher, William								171	Jambin	600
Icharry, Andrew Stewart				100				335	Waratah	396
Ieredith, Charles Thomas Iiller, Lawrie Douglas								328	Mundubbera	38
Ioore, Patrick								1,619 237	Monto ditto	279 288
Ioore, Stephen Henry			::				::	244	ditto	304
Iorante, Alfred Charles								118	ditto	238
Iouatt, Graham Buchanan								580	ditto	281
Iuir, William								9,440	Mundubbera	200
Iuller, Paul Iyles, David Charles								395	Monto	280
Iyles, Edward			::		45.			$1,111 \\ 633$	Kalpowar ditto	375 335
								033	ditto	336
IcCallum, Robert Alexande			1					832	Eidsvold	87
IcCarthy, Stephen IcCord, Charles Edward K	nov.			1				304	Thangool	562
IcCubbin, May Emma, for	And	ew El	liott M	Cubbin				25,160 388	Eidsvold	10 21:
IcGuigan, John Richard	Andi	···		ecubbii.				226	Mulgeldie	410
IcInnes, John								334	Monto	276
IcKenzie, Edward John								-333	ditto	308
IcKinnon, Peter								215	ditto	254
IcLennan, William								320	Mundubbera	48
IcRae, Christopher Albert								280	Biloela	476
IcRae, Godfrey Francis IcRae, Francis Murdo								303	ditto	474
cRobbie, Alexander								343 183	Mulgeldie Goovigen	213 641
188		HEL						169	Goovigen	. 04:
aldrett, George William orris, Frank								335 230	Monto Goovigen	250 637
han Malana William								207	The transfer of the state of th	
Oberg, Malcus William O'Brien, Thomas								395 318	Abercorn	156
D'Dwyer, Phillip				1 ::			1	554	Biloela Abercorn	436 168
gle, James Gordon								253	Mulgeldie	189
arker, Thomas Arthur								279	Biloela	45
aroz, William Charles eachy, Burgest James								190 350	ditto	439
eacock, Charles Edgar		- ::			100		2000	311	Monto Goovigen	28 64
earce, Richard					::			218	Tamakin	59
earce, William						2.		232	ditto	59
enberthy, Bert								300	Thangool	56
erry, Thomas Alexander								1,960	Eidsvold	9
ershouse, Stephen Bradney	y							265	Jambin	60
eters, Henry								274	Jambin	59.
itman, Josiah Arthur		• •						640	Biloela	48
ope, John Sydney orter, Leonard Cyril								207 153	ditto Goovigen	48: 65:
ower, Eric James								498	Mante	29
ower, Francis Michael								150	Mulgeldie	18:
ower, James								453	Monto	29
ownall, John Downman								16,800	Eidsvold	10
ownall, William Thomas								650	Kalpowar	36
reuss, Otto			5					189	Goovigen	63
TT T								227	Jambin	61
well, Thomas Ashley Jan						::		410	Thangool Kalpowar	56 35
arrie, Percy Alma				17.				206	Biloela	46
								222	Mulgoldic	90
del Alfred Adolf				.:				223 252	Mulgeldie Jambin	20 59
1 1 T 1 TT 1'								654	T2'1 11	8
alph, Joseph Heli	1.5							230		2
alph, Joseph Heli ashleigh, Francis Edward				THE THE		-				
alph, Joseph Heli					::		::		Mundubbera Eidsvold	
alph, Joseph Heli ashleigh, Francis Edward einke, John Frederick ice, Arthur ickards, Morland Hubert							::	590 2,227	Eidsvold	65
alph, Joseph Heli ashleigh, Francis Edward einke, John Frederick ice, Arthur ickards, Morland Hubert idgway, Nathaniel James								590 2,227	Eidsvold	69 27 29
alph, Joseph Heli ashleigh, Francis Edward einke, John Frederick ice, Arthur ickards, Morland Hubert idgway, Nathaniel James idgway, Robert John			::		::	::		2,227  215	Eidsvold	299 299 299
alph, Joseph Heli ashleigh, Francis Edward einke, John Frederick ice, Arthur ickards, Morland Hubert idgway, Nathaniel James idgway, Robert John igney, Edward Charles			::	::	::	::	::	590 2,227  215 550	Eidsvold	27 299 299 277
alph, Joseph Heli ashleigh, Francis Edward einke, John Frederick ice, Arthur ickards, Morland Hubert idgway, Nathaniel James idgway, Robert John igney, Edward Charles igney, Thomas Patrick						::	::	2,227  215	Eidsvold Mundubbera Monto ditto	62 27 299 299 277 332 204

	Nam	e of Wi	tness.					Approximate Area Interested in.	Place at which Evidence Given.	Page Evider
Rose, Valentine								Acres.	Abercorn	1
Russell, Edward Alexander				- ::				180	Thangool	5
Russell, Leonard John								280	ditto	5
Ryan, John Valentine								215	Monto	2
ander Coll III								7.00	77.1	9
ander, Carl Johan								1,097	Kalpowar	3 6
chaper, Alfred Ernest chuenemann, Ernest								$\frac{1,012}{305}$	By letter	6
chunemann, Adolf								304	Goovigen	5
chuurs, Jan William Fred			1					1,010	Kalpowar	3
ecker, Frederick George								332	Jambin	6
ecker, William Alfred							, ,	251	ditto	6
haw, James Alexander								366	Goovigen	6
heehan, Patrick Maurice helton, Cornelius								496 241	Waratah	4 4
nire Council		::						Deputation	Eidsvold	1
lverthorne, Duncan								331	Biloela	4
mpson, Joseph Alexander								160	Thangool	5
ack, Eric George								949	Abercorn	1'
nith, George James								713	ditto	10
nith, Henry John								1 100	Eidsvold	
nith, James Osborne nith, Joseph								1,489 806	ditto	
nith, Joseph nith, Norman William	::							590	Mundubbera Waratah	39
nith, William Hardidge								1,188	Mulgeldie	25
aatz, George Carl Frieder	ich							235	Monto	2
eger, Charles Wilfred	*	-						351	Mulgeldie	19
cephens, George								604	Monto	27
itton, Robert Stevin								256	Biloela	47
veet, Samuel								275	Waratah	4(
alty, John								550	Kalpowar	36
inzer, Arthur								540	Abercorn	16
aylor, Harry Bernard								380	Waratah	39
								3,536	Eidsvold	10
nompson, William Arthur								360	Thangool	53
nomson, Sydney, Land Ra					riet			.,	ditto	52
nurgar, John Edward owers, Alfred Henry								$\frac{235}{2,030}$	Mulgeldie	22 14
caill, Thomas Fotheringha	me	11	::			::		2,253	A bonosom	13
ratt, William Henry	/*							320	Monto	25
icker, Henry John								187	Biloela	48
rner, David								157	Jambin	59
rner, Morris ve, William Edward		• •		::				308 900	Mulgeldie	21 14
enn, Daniel								255	Thangool	53
cary, Henry								340	Mundubbera	3
vian, Guy	• •							235	Biloela	45
allace, Victor Clarence								322	Goovigen	64
								450	Monto	26
alton, Richard								240	ditto	23
arren, Darcy Richard								293	Waratah	40
								188	Goovigen	62
ebb, Harry George William		• •						463 914	Mulgeldie	22
ells, Archibald James ells, Edward				• •				342	ditto Monto	21
				-::				315	ditta	25
endt, Arthur								3,736	Abercorn	14
7 TTT111 CIL 1								488	Waratah	41
est, John								6,270	Abercorn	18
								435	ditto	16
		• •						329	Goovigen	64
								280 923	Biloela	48
lliams, George lliams, George John		::						500	Eidsvold Waratah	40
. xxx:10 1								264	Tombin	60
								520	Waratah	40
oodall, Michael John								177	Biloela	48
odbridge, Joseph								267	Kalpowar	37
oodford, Samuel Percival	::	::	::		::			174 352	Mulgeldie	18
and the same of th								302	Monto	20
ung, Gregory						15		7,000	Eidsvold	10
man, Eric Wesley								2,890	Abercorn	13
man, Elle Wesley								7 000		-
man, Arnold Raymond					::			5,339 309	Eidsvold Goovigen	63

## Appendix D.

Supri							CORDS.		CINDA	Date.			Rainfal In. Pts.		Total.	
							d by Mr. Upper			July-						
	Distric				ı	,				2nd			0 13			
			YEA	RLY	RAINE	FAT.L.				10th			0 48	9 down	0 in	61 pt
					Days		nches.	Po	ints.	A				2 days	0 111.	or be
1908					~ ~		35		26	August—			0.70			
					=0		35		31	2nd 6th			$078 \\ 045$			
					=0		31		15	23rd			0 11			
				-	~-		33		98	2014			0 11	3 days	1 in.	34 pt
1912					59		24		69	September-						
1913			THE PARTY	٠	63		40		5	2nd			0 3			
1914					65		28		59	6th			0 48			
1915		/			54		21		70	13th			0 5			
1916					88		37		46					3 days	0 in.	56 pt
							34		72	October-						
918							40		11	11th			0 34			
919							13		74	12th			0 43			
920					67		31		31	13th			0 17			
							40		31	18th			0 78			Mary S. J.
					57		31		2					4 days	1 in.	72 pt
			AT 4.5		=0		23		12	November—						
924		1.	mi.		00		42		38	9th			1 60			
000		٠.					32		12	28th			1 39	0.7		0.0
							28		28	The state of				2 days	2 in.	99 pt
000					82 85		46		31	December—			- 154			
020					00		45		21	1st			0 4			
										10th			0 13			
			DAI	LY E	RAINF	ALL.				11th			0 1			
				19	08.					12th			0 3			
	Date			Rain	fall.		Total.			26th			0 56			
				In.	Pts.					27th		• • •	0 15	G down	0 :	00 -4
	ary—													6 days	0 in.	92 pt
	2nd									Total	for ye	ar 19	08	50 days	35 in.	26 pt
	9th															-
	0th												1909.			
	1th									January-						
	9th									6th			0 38			
ð	Oth			0		e dona	4 30	1=		16th			0 89			
7 - l						6 days	4 in.	40	pts.	17th			1 4			
	ary—			1	07					18th			1 91			
	0th 1th			1						19th			0 57			
	2th			2						20th			2 22			
	3th			0						21st			0 85			
	9th			0						23rd			0 95	0 1	0 !	01
	1st			3						D. I			1.7	8 days	8 III.	81 pt
	3rd	I H		0						February—			0.22			
	4th			0						2nd			0 33			
	7th			0						3rd			0 19			
				0						22nd	• • •		0 12 1 33			
	8th	1		0 1		0 days	10 in.	74	pts.	23rd 24th						
21	8th			0						24111						
					_ 1					26th			0 36			
Iarch				0						26th			0 36	6 days	2 in	36 pt
[arch	ı—			0 :	85								0 36	6 days	2 in.	36 pt
[arcl	n— 2nd				85					March—				6 days	2 in.	36 pt
[arcl	n— 2nd 4th 5th			0 0	85 64 2					March— 2nd			0 59	6 days	2 in.	36 pt
[arch	n— 2nd 4th			0	85 64 2 54					March— 2nd 4th			0 59 0 27	6 days	2 in.	36 pt
farel	2nd 2nd 4th 5th 6th 3th			0 0 2 0 0 0 9	85 64 2 54 95					March— 2nd 4th 17th			0 59 0 27 0 73	6 days	2 in.	36 pt
[arch	a— 2nd 4th 5th 6th 3th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95					March— 2nd 4th 17th 21st		::	0 59 0 27 0 73 0 56	6 days	2 in.	36 pt
farch (4 13 14 15	2nd 4th 5th 6th 3th 4th			0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	85 64 2 54 95 24					March— 2nd 4th 17th			0 59 0 27 0 73			
farch ( 15 14 15	2nd 4th 5th 6th 3th 4th 5th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9					March— 2nd 4th 17th 21st 28th		::	0 59 0 27 0 73 0 56	6 days		
farch ( 15 14 15	2nd 4th 5th 6th 3th 4th			0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	85 64 2 54 95 24 9	) days	8 in.	27	pts.	March— 2nd 4th 17th 21st 28th			0 59 0 27 0 73 0 56 1 32			
farch (13 14 16 17	2nd 4th 5th 6th 3th 4th 5th 6th 7th			0 0 2 0 3 0 5 1 0 0 1 0 0 1	85 64 2 54 95 24 9		8 in.	27	pts.	March— 2nd 4th 17th 21st 28th April— 3rd			0 59 0 27 0 73 0 56 1 32			
farch (13 14 15 16 17	2nd 4th 5th 6th 3th 4th 5th 6th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9 79 15 9		8 in.	27	pts.	March— 2nd 4th 17th 21st 28th April— 3rd 7th			0 59 0 27 0 73 0 56 1 32 0 14 0 22			
farch (13 14 15 16 17 pril—	2nd 4th 5th 6th 3th 4th 5th 6th 7th — 3rd			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9 79 15 9		8 in.	27	pts.	March—			0 59 0 27 0 73 0 56 1 32 0 14 0 22 0 33			
farch (13 14 15 16 17 pril—	2nd 4th 5th 6th 5th 6th 7th — 3rd 4th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9 79 15 — 9		8 in.	27	pts.	March—			0 59 0 27 0 73 0 56 1 32 0 14 0 22 2 3 33 0 44			
farch (13 14 15 16 17 pril—	2nd 4th 5th 6th 3th 4th 5th 6th 7th — 3rd			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9 79 15 — 9	) days				March— 2nd 4th 17th 21st 28th  April— 3rd 7th 20th 21st 22nd			0 59 0 27 0 73 0 56 1 32 0 14 0 22 2 33 0 44 0 5			
farch (13 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	2nd 4th 5th 6th 3th 4th 5th 6th 7th — 3rd 4th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9 79 15 — 9		8 in. 2 in.		pts.	March—			0 59 0 27 0 73 0 56 1 32 0 14 0 22 2 3 33 0 44	5 days	3 in.	47 pt
114 12 12 12 12 12 12 12 12 12 12 12 12 12	2nd 4th 5th 6th 3th 4th 5th 6th 7th — 3rd 4th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9 79 15 — 9	days days	2 in.	46	pts.	March—			0 59 0 27 0 73 0 56 1 32 0 14 0 22 2 33 0 44 0 5		3 in.	36 pt 47 pt 67 pt
11 12 12 12 12 12 12 12 12 12 12 12 12 1	2nd 4th 5th 6th 3th 4th 5th 6th 7th — 3rd 4th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9 79 15 — 9	) days		46		March—			0 59 0 27 0 73 0 56 1 32 0 14 0 22 2 33 0 44 0 5 0 49	5 days	3 in.	47 pt
14 12 14 15 16 17 19 19 19 19 19 19 19 19 19 19 19 19 19	2nd 4th 5th 6th 3th 4th 5th 6th 7th —————————————————————————————————			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85 64 2 54 95 24 9 79 15 — 9	days days	2 in.	46	pts.	March—			0 59 0 27 0 73 0 56 1 32 0 14 0 22 0 33 0 44 0 5 0 49	5 days	3 in.	47 pt
12 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	2nd 4th 5th 6th 3th 4th 5th 6th 7th —————————————————————————————————			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	855 664 2 254 995 99 115 99115 9015 9016 9016 9016 9016 9016 9016 9016 9016	days days	2 in.	46	pts.	March—			0 59 0 27 0 73 0 56 1 32 0 14 0 22 2 33 0 44 0 5 0 49	5 days	3 in.	47 pt

ROSEB							tini	ied.	Date	1 14 272		Rainf		Total.	
	DAI	LY B			-continu	ued.			February-			In. Pt	S.		
Data			190			TT ( 1			1st	4		0 10			
Date.			Rainf			Total.			2nd			0 13			
June—			In. P	ts.					10th		1 H.	0 11			
			0 7	0					12th			0 19			
1st												0 8			
3rd									16th	0.00					
7th									20th			0 11			
10th			. 0 3	8					21st			0 3			
26th		٠.	. 0 .	9					22nd			0 2			
27th			. 0	4					23rd			0 26			
29th			. 0 20	6								-	9 day	s 1 in.	3 pt
30th			0 =	2					Manufacture						
					8 days	1 in	. 9	2 pts.	March—			0 10			
July-								I	6th			0 10			
1st			. 0 19	2					7th			0 27			
2nd									10th			0 22			
8th									14th			4 62			
16th			-						17th			0 29			
17th									18th			0 40			
									19th			0 30			
26th			0 18		6 20	0 1	-	6	20th			2 29			
August—					6 days	2 in.	1	6 pts.	24th			0 13			
7th			0 91						2701			0 19	0 10-	0 :	69
9th												10 7	9 days	o 111.	62 pts
									April—						
15th									5th			0 37			
17th									25th			0 16			
22nd									3000			- 10	2 days	0 in.	53 pts
24th	1.		0 10						Man				2 days	o m.	oo pus
25th			0 63						May—						
26th			1 0						17th			0 7	1 day	0 in.	7 pts
28th			0 2												
30th			0 6						June-						
					days	3 in.	68	pts.	1st			1 85			
eptember—								1	2nd			0 90			
3rd			0 5						12th						
8th			0 70									0 6			
16th			0 8						17th			0 18			
22nd			0 72						21st			0 10			
				4	days	1 in.	55	pts.	23rd			0 69			
ctober—			100						24th			0 16			
20th			0 29						25th			0 24			
22nd 26th			0 77									-	8 days	4 in.	18 pts
27th			$\frac{1}{1} \frac{45}{30}$						Turks				,		To Pts
30th			0 83						July-						
ooth			- 00	5	days	4 in.	64	nte	6th			0 48			
ovember-					aujs	ı in.	01	Pos.	7th			0 80			
18th			0 60						16th 17th			0 7			
29th			0 81						18th			0 54			
20011			0 01	2	days	1 in.	41	nte	1911			0 36			
ecember—					auju	1 111.	11	pro.					5 days	2 in.	25 pts
1st			0 24						August-						
5th			0 40						2nd			0 23			
16th			0 52						31st			0 2			
17th									0.130			0 2	0.7	0 .	
			0 14										2 days	0 in.	25 pts
18th			0 22						September—						
21st			0 10						14th			0 72			
23rd			0 26						15th			0 3			
28th			0 8						17th						
29th			0 79						27111			0 19	0.7		
30th			0 61									7	3 days	0 in.	94 pts
				10	days	3 in.	36	pts.	October—						bal Fin
TP.			0.0	_	,				7th			0 2			
Total f	or year	ir 19	09	72	days	35 in.	31	pts.	8th			0 7			
			101				-	-	9th			1 9			
			1910.						22nd						
nuary-			0									0 2			
13th			0 27						31st			0 13			
14th			1 71										5 days	1 in.	33 pts
15th			0 35						November-						Pes
16th			0 36						6th			0 40			
18th			0 43								- 1.	0 49			
19th			0 70						7th			0 8			
21st	* :		0 16						11th			0 18			
22nd			0 27						22nd			0 25			
00. 3			0 31						26th			0 90			
23rd												0 00			
23rd 30th 31st			1 26						30th			0 24			

	-		-	- 10					—continuea.				-		2,101			-	
ROSEBA							tinue	ed.	Date.				nfal		1	Гota	1.		
	DAI	LY RA			ontinue	ed.			July			In.	Pts						
			191						7th			0	20						
Date.			Rainf	all.		Total.			15th				13						
D			In. P	ts.					19th .				25						
December—									Tota.			_	20	3	days	0	in	58	pts.
5th			0 8						August—						aujo		222.		P
6th									21st			0	34						
8th									22nd				61						
9th		٠							23rd				64						
10th			0 2	8								_		3	days	1	in.	59	pts.
11th			0 2	6					September—										1
12th			0 2	2					23rd			1	0						
13th									30th				6						
23rd .			0 2								J.	_		2	days	1	in.	6	pts.
2014			0 2		days	2 in	9	6 pts.	October—										P
				_	dajs	2 11		o pts.	1st			0	50						
Total	for v	oor 10	110	76	days	21 :	1	=4-	2nd			0	6						
10tal	101 y	cai ii		, ,,	days	31 in	1. 1	5 pts.	6th				29						
									16th				4						
			191	1.					19th				57						
January-			201						20th	4 6 4			3						
4th			0 3	7					25th										
10th			0 7										22						
11th			1 3						29th	200		0	15	0	do	-		0.0	
12th			2 -3						November-					8	days	1	ın.	86	pts.
13th			0 5						14th			0	20						
14th			0 2								٠.		30						
17th			0 1						17th			0	24	0	Jan				
18th									December—			1	-	2	days	0	ın.	54	pts.
			0 4									. 0	C						
19th			0 5						2nd 7th			0							
20th			0 3								٠.		89						
22nd				3					9th	11.			55						
24th			0	9					11th				48						
26th			0 6	5					17th				71						
27th			0 5	2					27th			-2	26						
28th			1 1	5								-	-	6	days	4	in.	95	pts.
29th			1 2	7										-			-	-	-
30th									Total	for year	r 19	11		67	days	33	in.	98	pts.
31st			0 6								-						-	-	
		_ ' '			days	11 in	5	7 nts				10	12.						
February-								Pes.	January-			10	112.						
1st			0 2	5					1st			0	65						
2nd			0						2nd				34						
3rd			1 1						5th				31						
4th			2 8						6th		• •								
											• •		13						
5th			0 7						18th				44						
6th			0 1						28th			0	18						
7th			0						February-			-		6	days	3	in.	5	pts.
8th			0	7								0	00						
12th			0 8	)					9th		• •		23						
13th			0 7	Ł					10th				9						
14th			0 10	)					11th				19						
22nd			0 33						12th				10						
23rd			0 19						14th			0	4						
					days	7 in	. 38	pts.	15th			0	18						
March-				161 1	-		4	I					-	6	days	0	in.	83	pts.
5th			0 24	37.0					March—										*
									1st			1	25						
7th			0 10						2nd			0	7						
21st			0 49						3rd				12						
24th			0 56						4th			0	5						
25th			1 45						14th			0							
26th			0 38						15th				23						
				6	days	3 in.	22	pts.	20th										
					THE S			Pigg			• •		22						
April—			0 7						21st		• •		7						
April— 13th			0 75						27th			0	27					1	
13th			0 11						A			_	-	9	days	2	in.	13	pts.
13th 17th			~ 41		days	0 in.	93	nte	April—										
13th					and p	o 111.	99	P.8.	9th			0	19						
13th 17th 18th			-						1.041										
13th 17th 18th May—									10th			.0	4						
13th 17th 18th May— 16th			0 12									0	4	2	days	0	in.		
13th 17th 18th May— 16th 19th			0 12 0 10						May—					2	days	0	in.	23	
13th 17th 18th May— 16th			0 12 0 10 0 8											2	days	0	in.		
13th 17th 18th May— 16th 19th 21st			0 12 0 10		days	0 in.	30	pts.	May—			0 0 1	31	2	days	0	in.		
13th 17th 18th May— 16th 19th			0 12 0 10 0 8		days	0 in.	30	pts.	May— 5th			0	31 5	2	days	0	in.		

								-				-					The state of
ROSEB	ANKI	RAIN	FALL	RE	CORL	S-	cont	inuc	d.	Date.			Rainfal	11.	1	Total.	
HOSED			INFALL										In. Pts				
	DAH	A I IA			Juithu	rett.				February-			a Link				
Date.			1912 Rainfa			Tota	1			2nd							
Date.			In. Pts			1000				8th		٠					
June-			In. rts	5.						10th			0 17				
5th			0 2							11th			0 25				
9th			2 75							18th			2 2				
10th			0 52							21st			0 8				
11th			0 46							23rd			0 39				
										25th							
12th			0 51							26th			0 8				
23rd			0 55							27th			0 10				
24th			1 91							28th			0 8				
27th			0 6							20111				11	days	4 in.	22 pts.
28th			0 31							March-							
29th			0 3							3rd			0 13				
				10	days	- 7	in,	12	pts.	8th			0 24				
T. 1										13th			0 96				
July—			0.05							2001				3	days	1 in.	33 pts.
2nd			0 27							April—							
3rd			0 12							6th			0 86				
4th	1.5		0 62							12th			0 54				ME - LIT
14th			1 35							5797 1				2	days	1 in.	40 pts.
				4	days	- 2	in.	36	pts.	May-							
and the same										11th			0 25				
August—										12th			0 44				
4th			0 15							13th			0 42				
11th			0 10							23rd			0 25				
14th			0 15	-	,					25th			0 19				
				3	days	0	in.	40	pts.	30th			0 31				
September-													0 62				
			0.10	1	dow	0	in	-10	pts.	31st		• •	0 02	7	days	2 in.	48 pts.
19th			0 10	Т	day	0	m.	10	pts.	June-				-	aa, o		P
													0 54				
October-										21st							
13th			0 79							22nd		• •	1 30				
21st			0 5							26th			0 45				
23rd			0 3							29th			0 67	4	dowa	9 in	96 pts.
24th			0 58							T 1				4	uays	2 111.	so pis.
25th			0 35							July—			0 11				
26th			0 10							4th			0 14				
27th			0 30							14th			1 22				
				7	days	2	in.	20	pts.	27th			0 17				
								77	P	28th			0 8				
November—														4	days	l in.	61 pts.
9th			0 75							August—			Nil.				
21st			0 47							0 1 1			MII.				
23rd			0 18							September—			0.11				
26th			0 33							5th	25.5		0 11				
				4	days	1	in.	73	pts.	21st			0 38				
									1	22nd			0 9				
December—										27th			1 27				
6th			0 22							28th			0 77	-			
11th			0 29											5	days	2 in.	62 pts.
21st			0 7							October—			NT.				
31st			2 55							November			Nil.				
				4	days	3	in.	13	pts.	November—			0 1				
				-	-	-	-	-		1st		٠.	0 4				- 10 m
Total	for ye	ar 19	12	59	days	24	in	69	pts	3rd			0 30				RI LIGHT
	50							50	Pos.	15th			0.60				
										22nd	, lee		0 10				
			1913.							23rd			0 13				THE STATE
Towns										D				. 5	days	1 in.	17 pts.
January—			0.00							December—			0.70				
1st			0 96							5th			0 10				
2nd			0 25							11th		٠.	0 30				
5th			0 10							16th			0 5				
8th			2 83							17th			0 13				
9th			0 9							20th			1 93				
14th			0 25							21st			0 14				
15th			3 42							22nd			0 30				
16th			4 29							23rd			0 42				
17th			1 93							24th			0 25				
18th			1 18									٠.					
21st			3 14							27th		٠.	0 9	10	da	0 .	7.1
			0 11											10	days	3 in.	71 pts.
22nd				10	down	1.0				m-4-1	for	. 10	110	00	7		
				12	days	18	m.	55	pts.	Total	for yea	r 18	113	63	days	40 in.	5 pts.
																	-

-						hhom	uix I	-commuea	•						
ROSEB				RECORI		tinued	1.	Date			Rainfa In. Pts			Total.	hall?
			191					October-							
Date			Rainfa		mokel.			6th	13.24		0 5				
2000	•		In. Pt		Total.			7th			0 21				
January-			111. 1	us.				• 8th			0 58				
15th			0 0	0				9th			1 54				
								10th			0 8				
18th								11th			0 7				
19th								12th							
21st			. 0 5	5							0 40				
24th			. 0 2	1				17th			0 11				
25th			. 0 24	4				18th			0 33	0		0 .	07 1
				- 6 day	s 2 in	. 57	pts.					9	days	3 in.	37 pts.
February-								November-	-						
	25.4							29th			0 5	1	day	0 in.	5 pts.
23rd															1000
24th								December-							
26th			. 0 21	1				7th			0 34				
27th			. 0 10	6				17th							
28th											0 51				
			19 119/	- 5 day	s 2 in	. 17	nts	23rd			0 85				
Manak						-	1,00.	24th			0 95				
March-								28th			0 48				
1st			. 1 56	3				29th			0 28				
9th			. 0 61	l				30th			0 8				
10th								31st			0 98				
11th								Maria San San			-	8	days	4 in	47 pts.
25th								AND STELLAR			- 1-5-			. 111.	Pts.
26th								Total	for year	r 10	14	65	dave	98 :	50
27th								10001	201 968	.1 10		00	uays	20 III.	59 pts.
29th															Eth .
		٠.									1915.				
30th			0 40					January-			1919.				
			-	9 days	5 in.	74	pts.	1st			0 28				
April—															
9th			1 50					5th			0 98				
								7th			1 6				
13th								13th			0 3				
15th					6			17th			0 9				
22nd								18th			0 52				
23rd			0 40					19th			0 4				
				5 days	3 in.	7	pts.				-	7	days	3 in.	0 pts.
May-								February-							
3rd								5th			0.00				
											0 20				
22nd								6th			0 35				
24th			0 9					8th			0 30				
				3 days	0 in.	41	pts.	9th			3 15				
June-								17th			0 5				
5th			0.0-					18th			0 60				
			0 35					19th			0 15				
7th								20th			0 2				
14th			0 24					21st			0 18				
16th			0 20					23rd			0 19				
17th			0 77					26th							
23rd	1	ah. 2						20011			0 68	11	love	5 :	97
25th	4		0 72									11 (	lays	5 m.	87 pts.
26th			0 71				Hall I	March-							
30th			0 7								Nil.				
3011	0.18		- 1	9 days	1 :	02		Amail							
The second second				o days	4 in.	93 ]	pts.	April—							
July-								5th			0 12				
2nd			0 9					9th			0 2				
13th			0 13					11th			0 79				
27th								12th			0 40				
			0 27					13th			0 10				
30th			0 57		1.2.			14th			0 37				
				4 days	1 in.	6 1	ots.	16th	1.						
August-								23rd			0 5				
1st			0 0					25FQ			1 18	0 7	1	0 .	0
			0 9									8 0	lays	3 in.	3 pts.
2nd			0 11	0 -				May-							
			-	2 days	0 in.	20 I	ots.	2nd			0 8				
September-								5th							
			0 .								0 39				
6th			0 4					15th			0 14				
9th			0 27					16th			0 71				
10th			0 2								-	4 d	lays	1 in.	32 pts.
13th			0 22	- 74,71				June-			EU-U				P431
			-	4 days	0 in.	55 n	ts.	8th	11		0 47	1 d	av	0 in	47 nte
					13 - 13 - 1	P		300	1	1	41	+ 0	uy	о п.	47 pts.
D															

ROSEBAI							ont	inue	1.	Date.			Rainfall. In. Pts.		Total.	
	DAIL	Y KA	INFALL		ontinue	ed.				April—			111. 1 10.			
			1915							4th			0 43			
Date.		]	Rainfa	11.		[ota	1.						0 45			
			In. Pts	ś.						6th						
uly—										9th			0 4			
2nd			0 24							11th			0 25			
9th										12th			0 6			
15th			0 20							13th			0 82			
17th										21st			0 4			
			0 60							25th			0 13			
28th			0 5							30th			0 6			
31st			0 4							30111				9 days	2 in.	28
				6	days	1	in.	43	pts.							
ugust—										May-						
1st			0 58							3rd			0 46			
5th			0 37							6th			0 73			
										7th			0 30			
24th			0 5		2	-		0		7 (11				3 days	1 in.	49
				3	days	1	in.	0	pts.							
ptember—										June—						
			0.07	-		0		0.5		2nd			0 20			
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tober-												* *				
20th		4.	0 47							17th			0 40			
21st			0 5							21st			0 54			
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30th		+ 3	0 97													
				5	days	1	in.	68	pts.	31st			0 38	C Jawa	9 :	10
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ecember—										August-						
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29th			0 8							20th			0 74			
				5	days	2	in.	03	pts.	30th			0 11			
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2nd 3rd 4th 23rd 29th			1916. 0 3 0 23 0 6 0 24 0 5							2nd 3rd 5th 9th 21st 22nd 25th			0 35 0 6 0 33 0 15 0 11 0 23	7 days	1 in.	68
2nd 3rd 4th 23rd 29th 30th			1916. 0 3 0 23 0 6 0 24 0 5 0 24		days	0	in.	95	pts	2nd 3rd 5th 9th 21st 22nd 25th			0 35 0 6 0 33 0 15 0 11 0 23	7 days	1 in.	68
2nd 3rd 4th 23rd 29th 30th 31st			1916. 0 3 0 23 0 6 0 24 0 5 0 24		days	0	in.	95	pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th			0 35 0 6 0 33 0 15 0 11 0 23	7 days	1 in.	68
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2nd 3rd 4th 23rd 29th 30th 31st bruary— 3rd 5th 6th			1916, 0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28 1 40		days	0	in.	95	pts.	2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd			0 35 0 6 0 33 0 15 0 11 0 23 0 4 0 4 1 4 1 67 0 2	7 days	1 in.	68
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2nd 3rd 4th 23rd 29th 30th 31st bruary— 3rd 5th 6th 22nd 23rd 27th 28th urch— 1st 3rd 4th 5th			1916, 0 3 0 23 0 6 6 0 24 0 10 0 70 0 28 1 40 0 8 0 22 1 0 0 48 0 35 0 38 0 10 0 6 0 10 1 60	7	days		in.	16	pts.	2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd 5th 13th 13th 14th 24th			0 35 0 6 0 33 0 15 0 11 0 23 0 4 0 4 1 4 1 67 0 2 0 71 3 77 0 34 0 6 0 36 0 5 0 32		7 in.	
3rd 4th 23rd 29th 30th 31st  bruary— 3rd 5th 6th 22nd 23rd 27th 28th  arch— 1st 3rd 4th 5th 14th 21st 29th			1916. 0 3 0 23 0 6 0 24 0 10 0 28 1 40 0 8 2 1 2 0 0 48 0 10 0 6 0 10 0 6 0 10 0 35	7	days		in.	16	pts.	2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd 5th 13th 14th 24th 28th			0 35 0 6 0 33 0 15 0 11 0 23 0 4 0 4 1 4 1 67 0 2 0 71 3 77 0 46 0 47 0 34 0 6 0 36 0 5 0 32 0 44		7 in.	29
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2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 12th 17th 22nd 23rd  April— 7th 9th 22nd			1 55 0 77 1 33 0 10 0 16 0 76 0 77 0 20 0 70 0 34 0 40 0 40 0 18 0 4 0 14 0 59 1 40 0 20	7				21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st	for y	rear 19	0 0 17 19 0 1 0 0 0 1 3 3 1 7 1 0 0 0 0	28 75 	68	days	34 in.	72 ₁	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 12th 17th 22nd 23rd  April— 7th 9th			1 53 0 77 1 33 0 10 0 10 0 73 0 21 0 73 0 22 0 74 0 44 0 44 0 14 0 14 0 59 1 40 0 20 0 20 0 9	7	days	3 in.	57 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February—	for y		0 0 17 19 0 1 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0	28 75 	68	days	34 in.	72 ₁	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 12th 17th 22nd 23rd  April— 7th 9th 22nd			1 55 0 77 1 33 0 10 0 16 0 76 0 77 0 20 0 70 0 34 0 40 0 40 0 18 0 4 0 14 0 59 1 40 0 20	7		3 in.		21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st	for y		0 0 0 117 19 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0	28 75 	68	days	34 in.	7 1	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 9th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th			1 53 0 77 1 33 0 10 0 10 0 73 0 21 0 73 0 22 0 74 0 44 0 44 0 14 0 14 0 59 1 40 0 20 0 20 0 9	7	days	3 in.	57 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st 2nd	for y		0 0 0 117 19 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0	28 75 	68	days	34 in.	72 ₁	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th  May—			1 55 0 77 1 35 0 16 0 16 0 76 0 76 0 77 0 75 0 21 0 76 0 40 0 40 0 40 0 40 0 20 0 9	7	days	3 in.	57 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 30th 31st  February— 1st 2nd 6th	for y		0 0 0 17 19 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75 	68	days	34 in.	7 1	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th  May— 2nd			1 55 0 77 1 35 0 10 0 10 0 76 0 33 0 6 0 78 0 20 0 76 0 34 0 40 0 14 0 59 1 40 0 20 0 9	7	days	3 in.	57 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st 2nd 6th 7th 8th	for y		0 0 0 117 19 0 1 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75 	68	days	34 in.	7 1	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th  May—			1 55 0 77 1 35 0 10 0 10 0 11 0 77 0 33 0 6 0 22 0 22 0 77 0 34 0 45 0 4 0 18 0 14 0 20 0 20 0 20 0 20 0 20 0 20 0 14 0 14 0 14 0 14 0 14 0 14 0 14 0 1	11 4	days	3 in.	57 pts. 28 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st 2nd 6th 7th 8th 11th	for y		0 0 0 117 19 0 1 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75  118. 43 3 7 9 42 52 70 85 28 11 77 77 77 77 77 77 77 77 77	68	days	34 in.	7 1	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 9th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th  May— 2nd 3rd 3rd			1 55 0 77 1 35 0 10 0 10 0 76 0 33 0 6 0 78 0 20 0 76 0 34 0 40 0 14 0 59 1 40 0 20 0 9	11 4	days	3 in.	57 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 30th 31st  February— 1st 2nd 6th 7th 8th 11th 12th	for y		0 0 0 17 19 0 1 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75  118. 43 3 7 9 42 52 70 85 82 81 11 11 12 13 13 14 15 15 16 16 16 16 16 16 16 16 16 16	68	days	34 in.	7 1	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th  May— 2nd			1 55 0 77 1 38 0 10 0 10 0 10 0 77 0 33 0 6 0 0 20 0 20 0 40 0 18 0 40 0 20 0 0 9 0 9 0 10 0 10 0 10 0 10 0 10 0 1	111	days	3 in. 2 in. 0 in.	57 pts. 28 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st 2nd 6th 7th 8th 11th 12th 12th 13th	for y		0 0 0 17 19 0 1 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75  118. 43 3 7 9 42 52 85 11 77 112 12 19 10 13 15 15 15 16 16 16 16 16 16 16 16 16 16	68	days	34 in.	7 1	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 9th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th  May— 2nd 3rd 3rd			1 55 0 77 1 35 0 10 0 10 0 11 0 77 0 33 0 6 0 22 0 22 0 77 0 34 0 45 0 4 0 18 0 14 0 20 0 20 0 20 0 20 0 20 0 20 0 14 0 14 0 14 0 14 0 14 0 14 0 14 0 1	111	days	3 in. 2 in. 0 in.	57 pts. 28 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st 2nd 6th 7th 8th 11th 12th 13th 20th	for y		0 0 0 17 19 0 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75  118. 43 3 7 9 42 52 70 88 85 82 88 10 5 5 88 88 86 14 88	68	days	34 in.	7 1	pts.
2nd 3rd 4th 5th 10th 11th March— 2nd 3rd 5th 6th 7th 8th 9th 12th 17th 22nd 23rd April— 7th 9th 22nd 3rd 3rd 3rd 5th 6th 7th 3rd 3rd 3rd 5th 6th 7th 22nd 23rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd			1 55 0 77 1 38 0 10 0 10 0 10 0 77 0 33 0 6 0 0 20 0 20 0 40 0 18 0 40 0 20 0 0 9 0 9 0 10 0 10 0 10 0 10 0 10 0 1	111	days	3 in. 2 in. 0 in.	57 pts. 28 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st 2nd 6th 7th 8th 11th 12th 13th 20th 24th	for y		0 0 0 117 19 0 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75  118. 43 3 7 9 42 25 28 111 77 129 93 35 43 31 388 10 55 55 56 56 56 56 56 56 56 56	68	days	34 in.	7 F	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 12th 17th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th  May— 2nd 3rd June— 8th			1 55 0 77 1 38 0 10 0 10 0 10 0 77 0 33 0 6 0 0 20 0 20 0 40 0 18 0 40 0 20 0 0 9 0 9 0 10 0 10 0 10 0 10 0 10 0 1	111	days	3 in. 2 in. 0 in.	57 pts. 28 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st 2nd 6th 7th 8th 11th 12th 13th 20th 24th 29th	for y		0 0 0 17 19 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75  118. 43 3 7 9 42 55 28 11 77 12 9 9 9 13 15 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18	68	days	34 in.	72 1 72 1 1 7 7 F	pts.
2nd 3rd 4th 5th 10th 11th  March— 2nd 3rd 5th 6th 7th 8th 9th 12th 17th 22nd 23rd  April— 7th 9th 22nd 30th  May— 2nd 3rd 3rd			1 55 0 77 1 38 0 10 0 10 0 10 0 77 0 33 0 6 0 0 20 0 20 0 40 0 18 0 40 0 20 0 0 9 0 9 0 10 0 10 0 10 0 10 0 10 0 1	11 4	days	3 in. 2 in. 0 in.	57 pts. 28 pts. 55 pts. 17 pts.	21st 24th  Total  January— 3rd 4th 5th 9th 10th 11th 12th 16th 21st 22nd 23rd 24th 29th 30th 31st  February— 1st 2nd 6th 7th 8th 11th 12th 13th 20th 24th	for y		0 0 0 117 19 0 0 0 0 0 1 3 3 1 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 75 	68	days	34 in.	7 1	pts.

ROSEBA	ANK I	RAIN	FALL	RECO	RDS-	-con	tinue	ed.	Date.			Rainfa		Total.	
	DAI	LY RA	AINFALL	-conti	nued.							In. Pts	5.		
			1918.						March—			0 50			
Date.			Rainfa	11.	To	tal.			1st	I SOF		0 59			
			In. Pts	š.					2nd			0 80			
March—									3rd			0 55			
1st									6th			0 3			
2nd									27th			0 50			
3rd			0 57						28th			0 50			
4th			0 23						29th			0 14			
22nd			0 50						31st			0 8	0.7	0 '	10 -4
23rd			0 20									a Fi	8 day	ys 3 in.	19 pts.
24th			0 18						April—						
28th		·	0 70						12th			0 8			
				8 da	ys	2 in.	83	pts.	24th			1 32			
April—									25th			0 8			
8th									26th			0 9			
23rd			0 22									-	4 day	s 1 in.	57 pts.
24th									May-						
25th			1 64						3rd			0 3			
26th			0 86						5th			0 47			
27th			0 9	0.3		0 .			6th			0 35			
May-			-	6 da	ys	3 in.	56	pts.	7th			0 8			
May— 8th			0 30						8th			0 5			
11th			0 30						9th	• •	• • •	0 13			
12th			0 16						9th 11th						
17th												0 9			
17th			0 27	4 da	ve	0 in	70	nte	21st			0 26			
June—				+ ua;	ys	0 in.	76	pts.	22nd			0 68	0. 7.	0.1	14
			Nil.										9 day	s 2 in.	14 pts.
July—									June-						
25th			0 4	1 da	ay	0 in.	4	pts.				Nil.			
August-									July-						
5th			0 42									Nil.			
6th			0 21						August						
7th			0 6						August-			0 01			
24th			0 4						26th			0 61			
31st			0 4						27th			0 4	0.1		27 .
				5 day	vs	0 in.	77	pts.					2 day	s 0 in.	65 pts.
September-					, -			P	September—						
5th			0 48	1 day	y	0 in.	48	pts.				Nil.			
0.1.1									October—						
October—			0.10						9th			0 9			
11th			0 13	1 day	7	0 in.	13	pts.	16th			0 75			
November-									17th			0 30			
1st			0 41						22nd			0 39			
16th			0 5						28th			0 50			
19th			0 9										5 day	s 2 in.	3 pts.
20th			0 43										o daj	5 2 111.	o pes.
21st			0 19						November—						
				5 day	rs .	1 in.	17	pts.	23rd			0 30	1 day	0 in.	30 pts.
December-							1111	1	December—						
18th			0 60						4th			0 5			
19th			0 27						16th			0 3			
20th			0 18						30th			0 5			
26th			0 17						Soul				3 day	e 0 in	13 pts.
27th			0 65										- uay	5 J III.	15 pts.
				5 day	'S'	l in.	87	pts.	Total	for ye	ear 19	19	42 day	s 13 in.	74 nts
Total	for ye	ar 10	18	63 day	ra 41	0 :	11	4		-			445	5 10 III.	11 pts.
Total	101 56	a1 10	10	oo day	8 4	0 In.	11	pts.				1090			
			1010						January-			1920.			
January-			1919.						2nd			4 57			
3rd			0 2						3rd						
			0 3						4th						
15th			0 42									1 7			
16th			0 37						5th			0 24			
18th			0 24						7th			0 25			
30th			0 50				-		8th			0 52			
				5 day	S .	l in.	56	pts.	9th			0 68			
February—			100						11th			0 83			
13th			0 14						20th	1.	·	0 33			
14th			0 25						21st	pening.	1.	0 61			
18th			0 11						22nd			0 8			
20th			0 2									-	11 day	s 9 in.	22 pts.
21st			1 65						February-				440)	- U III.	Le pts.
			-	5 day	S S	in,	17	pts.				0.01			
				V		6111	7.	Les.	7th		1.1	0 31	1 day	0 in.	31 pts.

ROSEBA	NK R	AINF	'ALL I	RECORD	S—contin	ued		Date.		175		ainfal		7	Cotal.		
				-continue							I	n. Pts.					
			1920.					December—				0 50					
Date.		т		17/07/2	m . 4 - 1			3rd				0 52					
Date.			Rainfall		Total.			7th				1 17					
Manah			In. Pts.	1000				8th				1 31					
March—			0 61					9th				0 14	1	1	9 ;	14	nta
2nd			0 64									-	4	days	5 in.	14	pts.
3rd			0 36													0.1	-
4th			0 20					Total	for	year	192	20	67	days	31 in.	31	pts.
5th			0 6														
9th			0 28									1921.					
30th			0 4					January-		4.00		1921.					
31st			0 5					8th				0 15					
				7 days	1 in.	63	pts.					0 90					
April—							1	14th			٠.						
10th			0 3					15th				1 13					
			0 5					16th				0 69					
16th		• •						17th				2 9					
19th			0 13					18th				0 25					
21st			0 6					19th				0 18					
22nd			0 31					24th				0 5					
23rd			0 3					28th				0 9					
29th			0 7					29th				0 8					
			-	7 days	0 in.	68	pts.	30th	·			0 17					
May-								31st				0 12					
8th			0 75										12	days	5 in.	90	pts.
9th			0 30					February-									
			0 69					7th				1 14					
16th								8th				0 16					
17th			0 65					15th				0 3					
22nd			0 5					20th				0 20					
23rd			0 45					21st				0 7					
25th			0 16					24th				0 8					
26th			0 12									0 8					
28th			0 4					28th				0 0	7	days	1 in	76	pts.
				9 days	3 in.	21	pts.	March-					-	att			P co.
Tuna							3/17	5th	٠			0 7					
June-			0 0					7th				0 67					
2nd			0 3					8th				0 18					
3rd			0 14									0 25					
13th			1 76					9th				0 40					
14th			0 11					10th			٠.						
28th			0 6					11th				0 11					
				5 days	2 in.	10	pts.	12th				0 6					
July-								13th				0 6					
3rd			0 10					14th				0 8					
4th			0.12					30th				0 38					
5th			0 64					31st				0 18		3			
			0 40										11	days	2 in	. 44	pts.
15th								April									
16th	**		0 2	5 dores	1 in	90	nta	1st				0 10					
			14.57	5 days	1 in.	40	Pts.	2nd				0 8					
August-								3rd				0 3					
1st			0 62					4th				0 11					
29th			0 25					6th				0 90					
30th			0 71					12th	11.			0 14					
	7 11 1		-	3 days	1 in.	58	pts.	15th				0 3					
~								16th	ma .			0 5					
September-	To live		0.0-					17th				0 7					
11th			0 37					29th				0 3					
12th			0 8									0 5					
16th			0 75					30th			• •	0 5	11	days	1 in	50	pts.
18th			0 14					Mor				11.18	11	adys	1 111	. 02	Pts.
	4			4 days	1 in.	34	pts.	May-				0.10					
October-				- 174				2nd				0 16					
			0 19					6th				0 7					
16th	F . 1.23		1 57					16th	٠.		٠.	0 95					
17th								21st				0 48					
18th			0 36					25th				0 4				17.21	
21st			1 26					12 10 10 10					5	days	1 in	. 70	pts.
22nd			0 74					June-				13					
24th			0 23			0-		5th				0 25					
			100	6 days	4 in.	35	pts.	9th				1 20					
November-								10th				2 14					
			0 22					11th				1 80					
17th								13th				0 9					
18th			0 61					24th				0 7					
22nd		50.1	1 31					26th				0 20					
27th			0 21								٠.						
28th			0 12		0.	17	-4-	30th			• •	0 17	0	days	F :	0	2 pts.
				5 days	2 in.	41	pts.							days	0.11	. 3.	- Pro.

POCED	ANTIT					CODE	. ~	-			T		-	Dainfa	.11		Total.		
ROSEB						CORL ontinu		-cont	inue	ed.	Date	e.		Rainfa In. Pt			1 otal.		
											February-	-continue	d.						
D 1				1921							10th								
Date				infa			Tot	al.			20th								
T1			In	. Pts							27th								
July-											28th								00 1-
1st				2 0							35. 3				10	days	7 i	n. 2	29 pts.
4th				0 22							March-			0.45	1	don	0 ;	. 4	15 pts.
9th				0 5							1st			0 45	-	day	0 in	1. 9	o pro.
11th				0 15							April—								
12th				7							17th			0 15	1	day	0 in	n. 1	5 pts.
20th				5															
21st				8							May—								
22nd			(	26	0	days			00		22nd			0 21					
August-					0	uays	-	111.	00	pts.	29th			0 33				_	
17th			(	68							т.				2	days	0 11	1. 5	64 pts.
28th				80							June-			0 -0					
30th				6							11th		• •	0 50					
31st				47							12th			0 86					
			_		4	days	2	in.	1	pt.	19th			0 9					
September-									+	P.	21st		٠.	0 7					
5th			0	20							29th		٠.	1 18					
7th				18							30th			0 2		3.	0.	_	0
8th			0								Tuly				6	days	2 in	. 7	2 pts.
9th			0								July-			0.70				14-	
15th			0								8th			0 76					
19111			0	9	5	days	0	in	5.0	2040	9th			1 24					
October-					0	days	0	111.	90	pts.	13th			0 4					
2nd			0	36							16th			0 6	4	dor	0 .	7.	0
10th				13							August—				4	days	2 1m	. 1	0 pts.
11th				10							23rd			0 67					
12th				41							29th			0 28					
15th				52							23(11			0 20	9	days	0 in	0	5 pts.
23rd				9							September-	_			_	uays	0 111	. 0.	pts.
2014			-		6	days	1	in	61	pts.	13th			0 4					
November-					U	uays		111.	0,1	pts.	21st			0 11					
14th			0	90									•		2	days	0 in	1/	5 pts.
21st											October-				~	days	0 111	. 10	pts.
28th				13							22nd			0 15					
29th				4							25th			0 53					
30th				11											2	days	0 in	. 68	8 pts.
aoun			0	14	5	days	0		20		November—					,			pes.
December-					9	days	2	in.	32	pts.	17th			0 15					
11th			0	36							20th			0 62					
16th				35							21st			0 4					
25th				8							26th			2 83					
26th				3							27th			0 9					
27th				40							D				5	days	3 in	. 7:	B pts.
28th				96							December—								
29th				72							8th			0 12					
30th				98							9th			0 12					
31st	•••										10th			0 5					
. olst			U	74	0	Jama	11		00		14th			0 11					
					9	days	11	ın.	62	pts.	15th		٠.	1 38					
Total	for yea	r 10	91		91	dor	40		0.7		16th	·		0 35					
Total	Lor yea	1 19.	-1	• •	31	days	40	in.	31	pts.	18th ·		٠.	0 10					
			-	200							19th			1 50					
January-			19	922.							20th			0 22					
1st			0	01							21st			0 9					
				81							22nd			1 31					
6th				9							26th			0 13					
7th				70											12	days	5 in	40	B pts.
9th		10		55													0 111	40	, prs.
15th				31							Total	for year	19	22	57	days	31 in	dui	
16th		٠.		23											-	auys	91 III	2	2 pts.
17th				3										1000				-	
22nd				32							January-			1923.					
30th			0	22							2nd			0 3					
31st			3								3rd								
77.1				_ :	10	days	6	in.	7.8	pts.	7th		• •	0 81					
February—											8th		• •	0 65					
1st			0										٠.	0 13					
2nd			2								9th		٠.	0 38					
3rd			0	23							10th			0 24					
$4 ext{th}$			1	69							11th		٠.	0 95					
5th			0	72							12th			0 40					
9th			0								26th			1 26					
															9	days	4 in	91	pts.
																0~	2 111	. 0	pts.

ROSEBAN					—continued.	Date.			Rainfall		otal.
	DAIL	RAI		-continue	d.	February—		Total I	n. Pts.		
			1923.						0 30		
Date.		I	Rainfall.		Fotal.	1st					
		]	In. Pts.		The second of	5th			0 25		
ebruary—						6th			0 8		
3rd			0 49			8th			0 44		
11th			0 11			11th			0 40		
				2 days	0 in. 60 pts.	12th			0 38		
arch—						14th			0 10		
2nd			0 60			15th			1 23		
3rd			0 43		The state of the s	16th			0 73		
o. a				2 days	1 in. 3 pts.	18th			0 7		
pril—						19th			0 18		
10th			0 5			20th			0 38		
11th			2 49					• •	1 21		
16th			0 4			22nd				19 Jours	5 in. 75
			0 3							13 days	5 In. 10 j
17th						March-					
24th			0 9						0 19		
25th			0 21			6th					
27th			1 90	-	4.1.04	7th			0 71		
			7717	7 days	4 in. 81 pts.	8th			1 61		
ay-			-			9th			0 7		
2 1 1 1			Nil.			14th			0 16		
une-						23rd			0 10		
4th			1 55			25th			0 47		
						28th			1 39		
5th			1 84			2001	i Hus	41 70	,	8 days	4 in. 70
25th			0 40	0 7	9 : 70				7 (1)	, .	
			7	3 days	3 in. 79 pts.	April—					
uly—						3rd			0 50		
1st			0 28			7th			0 12		
27th			0 36						0 23		
28th			0 28			8th					
				3 days	0 in. 92 pts.	9th			0 34		
ugust						10th			1 60		0 1 70
			0 30	1 day	0 in. 30 pts.					5 days	2 in. 79
20th			0 00	- day	(	3.5					
eptember-						May-			Nil.		
4th			0 53						1411.		
			0 37								
5th			0 01	2 days	0 in. 90 pts.	June-					
				L days	o m. co pro-	11th			1 30		
ctober—			0 =			12th			0 12		
18th			0 5						0 3		
21st			0 4			13th			0 3	3 days	1 in. 45
31st			0 19	0 7	0 : 00 t					5 days	1 III. 10
T Marie				3 days	0 in. 28 pts.	July-					
lovember—									0 2		
1st			0 18			6th					
2nd			0 5			8th			0 35		
4th			0 6			9th			3 61		
9th		٠	0 60			10th			0 30		
13th		, u	0 27			11th			0 24		
			0 3			12th			0 3		
15th				6 days	1 in. 19 pts	22nd			0 79		
ecember-				o unjo	F				0 3		
1st			1 10			23rd			0 10		
			0 17			24th			0 27		
2nd						25th			0 21	10 days	5 in. 74
4th			0 30							10 days	J III. 14
5th			0 4			Amount					
8th			0 11			August—			0.10		
12th			0 8			13th			0 18		
15th			0 3			29th			0 33		
21st			0 6			30th			0 44		
22nd			1 74			31st			0 6		
			0 5							4 days	1 in. 1
23rd			0 53								
26th						September-					
27th			0 23			25th			0 22		
29th			0 1	10 7	1 in 15 mt	29th			1 37		
				13 days	4 in. 45 pts.	29(11			8	2 days	1 in. 59
			200	F1 3-	99 in 19 nta	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Total	for ye	ear 19	923	51 days	23 in. 12 pts.	Octobor					
			71.0		The state of the s	October—			0 68		
			1004			6th			0 00		
			1924.			20th					
anuary-			0.05			21st					
			0 27			22nd			0 40		
22nd											
			0 4			31st			0.00	1 2 2	2 in. 40

ROSEBA		Y RA						onti	пиеа	ι.	Date.			Rain In.				rotal.	
	DAIL	11 101	19		007	o core ce e	, c.				July			0	0	-	Jose	0 in.	6 p
Date.			Rain	fall		7	Cotal				4th	DVI.	• •	0	6	1	day	0 111.	
Toyombon			In. I	Pts.							August—			0	50				
November— 1st			0	63							9th			0					
2nd			2								10th		• •	0					
4th			0 :								30th	11		0					
6th	1		0								31st		• •	-	_	4	days	1 in.	30 p
8th			0								Cantombon								4.
9th			2								September—			0	4				
12th			0								4th	went		0					
13th			1 :								16th			0					
20th			0								17th			0					
24th			0 '	70							24th					4	days	1 in.	8 p
THE HALL			_	-	10	days	9	in.	55	pts.	October-								
ecember—			0	10							October			N	1.				
3rd 7th			0 4																
17th			1								November—								
18th			0 :								2nd	- Karvan		0					
19th			0								4th			0					
20th			0 4								8th			1					
30th			1 (								11th			0					
				_	7	days	4	in.	9	pts.	13th			0					
											14th			0	22	c	Jama	o in	05 m
Total	for ye	ear 19	)24 .		70	days	42	in.	38	pts.					-	0	days	2 111.	85 p
						-		-			December—			0	_				
			193	25.							1st		٠.		7				
anuary-											13th			0					
5th			0 4								15th			0					
7th			0								16th			0					
8th			0								17th				7				
21st			1								24th		• •	0					
22nd			0								25th		٠.	1					
23rd			0								29th			1					
24th			1 :								30th			0					
31st			1 :	20	8	days	5	in	18	pts.	31st			1	1.8	10	days	6 in	44 p
ebruary—					0	days		111.	10	pro.						10	uays	0 111.	ar b
1st			0	7							Total	for year	r 19	25		63	days	32 in.	12 p
2nd			0	4															7.50
7th			0																
23rd			2											19	26.				
															-				
26th	::	::	1								January-								
26th 27th			1 :	33							January— 1st	T constant		0	48				
26th		1.	1	33	~	1			20					0					
26th 27th 28th			1 :	33	7	days	4	in.	62	pts.	1st				15				
26th 27th 28th Iarch—		::	0 0	33 60 —	7	days	4	in.	62	pts.	1st 3rd			0	15 80				
26th 27th 28th Iarch— 5th			0 :	33 60 —	7	days	4	in.	62	pts.	1st 3rd 4th		• •	0	15 80 72				
26th 27th 28th (arch—		::	0 0	33 60 - 29 3	7	days	4	in.	62	pts.	1st 3rd 4th 5th	::		0 0	15 80 72 21				
26th 27th 28th Iarch— 5th 12th			0 : 0 : 1	33 60 - 29 3	7	days	4	in.	62	pts.	1st 3rd 4th 5th 6th			0 0 0 0	15 80 72 21 41				
26th 27th 28th Iarch— 5th 12th 17th			0 : 1 : 0 :	33 60 	7	days	4	in.	62	pts.	1st 3rd 4th 5th 6th 8th 20th			0 0 0 0 0	15 80 72 21 41	7	days	2 in.	87 r
26th 27th 28th Iarch— 5th 12th 17th 18th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60  29 3 28 9	7	days	4	in.	62	pts.	1st 3rd 4th 5th 6th 8th 20th			0 0 0 0 0	15 80 72 21 41	7	days	2 in.	87 p
26th 27th 28th Iarch— 5th 12th 17th 18th 20th		::	0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4	7	days	4	in.	62	pts.	1st 3rd 4th 5th 6th 8th 20th February—			0 0 0 0 0	15 80 72 21 41 10	7	days	2 in.	87 r
26th 27th 28th Carch— 5th 12th 17th 18th 20th 21st			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4	7	days	4	in.	62	pts.	1st 3rd 4th 5th 6th 8th 20th	::		0 0 0 0 0	15 80 72 21 41 10				
26th 27th 28th Iarch— 5th 12th 17th 18th 20th 21st 24th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23	7	days	4	in.	62	pts.	1st 3rd 4th 5th 6th 8th 20th February— 10th 11th			0 0 0 0 0 0	15 80 72 21 41 10		days		
26th 27th 28th Iarch— 5th 12th 17th 18th 20th 21st 24th 29th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 25 38			4	in.	62	pts.	1st 3rd 4th 5th 6th 8th 20th February— 10th 11th March—			0 0 0 0 0 0	15 80 72 21 41 10				
26th 27th 28th Iarch— 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 25 38		days		in.		pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th			0 0 0 0 0	15 80 72 21 41 10				
26th 27th 28th Iarch— 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 25 38							1st 3rd 4th 5th 6th 8th 20th February— 10th 11th March—			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 - 5 79				
26th 27th 28th Earch— 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st pril—			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 229 3 228 9 5 4 45 223 225 338 —							1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 - 18 24 46	2	days	0 in.	84 p
26th 27th 27th 28th 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st pril—			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 25 38 21	10	days	3	in.	9	pts.	1st 3rd 4th 5th 6th 8th 20th February— 10th 11th March— 18th 21st 25th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 - 18 24 46	2	days	0 in.	84 1
26th 27th 27th 28th Sarch— 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st pril— 1st 14th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 25 38 21	10		3	in.	9		1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 - 18 24 46	2	days		84 p
26th 27th 27th 28th Sarch— 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st pril— 1st 14th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	333 600 229 3 228 9 5 4 445 223 225 338 21 337	10	days	3	in.	9	pts.	1st 3rd 4th 5th 6th 8th 20th February— 10th 11th March— 18th 21st 25th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 - 18 24 46	2	days	0 in.	84 p
26th 27th 28th arch— 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st pril— 1st 14th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	333 600 229 3 228 9 5 4 445 223 225 338 21 337	10	days	3	in.	9	pts.	1 st 3 rd 4 th 5 rd 4 th 5 th 6 th 8 th 20 th 1 th 11 th 1 th 1 sth 2 1 st 2 5 th 1 April—			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 - 18 24 46	2	days	0 in.	84 p
26th 27th 28th  28th  [arch— 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st  pril— 1st 14th  [ay— 1st			0:0000000000000000000000000000000000000	33 60 29 3 28 9 5 4 45 223 225 338 21 37 14 5	10	days	3	in.	9	pts.	1 st 3 rd 4 th 5 th 6 th 8 th 20 th 11 th 11 th 12 1 st 25 th 14 April 3 rd			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 18 24 46	2	days	0 in.	84 p
26th 27th 28th 28th 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st Pril— 1st 14th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 225 38 21 37 14 5 115	10	days	3	in.	9	pts.	1 st 3 rd 4 th 5 th 6 th 8 th 20 th 11 th 11 th 12 lst 25 th 13 rd 5 th 5 th 6 th 8 th 20 th 12 lst 25 th 14 lst 15 th 15 th 15 th 16 th 1			0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 - 18 24 46 -	2	days	0 in.	84 p
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26th 27th 28th 28th 28th 12th 17th 18th 20th 21st 24th 30th 31st 14th 18th 24th 18th 26th 28th 28th 28th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 225 337 14 5 115 73 8	10	days days	3	in.	9 58	pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st 25th  April— 3rd 5th 6th 8th			0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 - 18 24 46 - 11 11 9	3	days	0 in. 0 in.	84 I
26th 27th 28th 27th 28th 12th 17th 18th 20th 21st 24th 30th 31st 14th 18th 26th 28th 28th 28th 28th 28th 28th 28th 28			0:0000000000000000000000000000000000000	33 60 29 3 28 9 5 4 45 223 225 338 21 5 115 73 8	10	days	3	in.	9 58	pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st 25th  April— 3rd 5th 6th			0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 - 18 24 46 - 11 11 9	3	days	0 in. 0 in.	84 I
26th 27th 28th Iarch— 5th 12th 17th 18th 20th 21st 24th 29th 30th 31st 1st 14th Iay— 1st 4th 18th 26th 28th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 223 225 338 21 5 115 73 8	10	days days	3	in.	9 58	pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st 25th  April— 3rd 5th 6th 8th			0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 18 24 46 11 11 9 31	3	days	0 in. 0 in.	84 I
26th 27th 28th 28th 28th 12th 17th 18th 20th 21st 24th 30th 31st 14th 18th 26th 28th 28th 28th 28th 28th 28th 28th 28			0:0000000000000000000000000000000000000	33 60 29 3 28 9 5 4 45 223 225 338 21 37 14 5 15 17 3 8 3	10	days days	3	in.	9 58	pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st 25th April— 3rd 5th 6th 8th  May— 10th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 18 24 46 11 11 9 31	3	days	0 in. 0 in.	84 I
26th 27th 28th 12th 28th 12th 17th 18th 20th 21st 24th 30th 31st 14th 18th 26th 28th 18th 26th 28th 18th 26th 28th 18th 18th 26th 28th 18th 18th 26th 28th 18th 18th 26th 28th 18th 18th 28th 18th 18th 18th 18th 18th 18th 18th 1			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 223 225 338 21 37 14 5 15 73 8 3 11	10	days days	3	in.	9 58	pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st 25th April— 3rd 5th 6th 8th  May— 10th 14th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 - 5 79 - 18 24 46 - 11 11 9 31	3	days	0 in. 0 in.	84 I
26th 27th 27th 27th 12th 17th 18th 20th 21st 24th 29th 30th 31st 14th 18th 26th 28th 28th 28th 18th 26th 28th 16th 16th			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 225 38 21 37 14 5 15 73 8 3 11	10	days days	3	in.	9 58	pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st 25th  April— 3rd 5th 6th 8th  May— 10th 14th 15th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 - 5 79 - 18 24 46 - 11 11 9 31 -	3	days	0 in. 0 in.	87 p 84 p 88 p
26th 27th 28th 28th 28th 28th 12th 17th 18th 20th 21st 24th 30th 31st 4th 18th 26th 28th 28th 28th 28th 28th 28th 28th 28			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 225 38 21 37 14 5 15 73 8 3 11 0 20	10	days days	3	in.	9 58	pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st 25th  April— 3rd 5th 6th 8th  May— 10th 14th 15th 16th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 5 79 18 24 46 11 11 9 31 17 33 6 21	3	days	0 in. 0 in.	84 p
26th 27th 28th   27th 28th   Iarch 5th 12th 17th 18th 20th 21st 24th 30th 31st   29th 30th 31st   4th 18th 26th 28th   1st 4th 18th 26th 28th   20th 20th 20th 20th 10th 10th 10th 10th 20th 10th 10th 10th 10th 10th 10th 10th 1			0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	33 60 29 3 28 9 5 4 45 23 225 338 21 37 14 5 115 73 8 3 111 0 20 6	10	days days	3	in.	9 58	pts.	1st 3rd 4th 5th 6th 8th 20th  February— 10th 11th  March— 18th 21st 25th  April— 3rd 5th 6th 8th  May— 10th 14th 15th			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 80 72 21 41 10 - 5 79 - 18 24 46 - 11 11 9 31 -	3	days	0 in. 0 in.	84 p

	DATE	v R	INDALL	RECORD:	-contr	nued.	Date.			ainfal		Fotal.	
	DAIL	1 104	1926.	-continu	ea.		March-cont	tinued.	1	n. Pts.	and the same		
Date.		1	Rainfal	1 ,	Total		13th			2 80			
ane—			In. Pts.		Total.		14th			0 75			
7th		HE	0 72	112 - 1			23rd			0 47			
20th			0 21						• •				
22nd			0 21				24th			1 9			
							25th			1 50			
23rd			0 52				26th			0 40	10 7		
24th			0 19				Amuil			-	13 days	8 in.	11 p
25th			0 8				April—						
			-	6 days	1 in.	80 pts.	1st			0 51			
ly—			0.00				2nd			3 45			
8th			0 22	1 day	0 in.	22 pts.	6th			0 14			
igust—							18th			0 45			
			Nil.				27th		• •	0 9	5 days	4 in.	64 J
ptember—			0.24				May-						1
7th			0 34				12th			0 15	1 day	0 in.	15 1
9th			0 7								- 440		10 1
17th			0 7				June-						
20th			0 3				4th			3 30			
26th			0 13				5th	1. 193		0 90			
27th			1 10				17th			0 35			
			-	6 days	1 in.	74 pts.	18th			0 9			
tober—				1	F I	P.O.	1001			0 9	4 days	4 in.	64 .
15th			0 33	1 day	0 in.	33 pts.	July-			nu n	4 days	4 111.	64 ]
vember-						P	7th			0.94			
16th			0 44							0 24			
25th			0 50				8th			0 5			
2011			0 00	2 days	0 in	01 242	22nd			0 18			
cember—				2 days	0 in.	94 pts.	23rd			0 32		1.60	( Here
3rd			1 7								4 days	0 in.	79 ]
7th			0 25				August—			ES. 11			
8th							2nd			0 4			
			0 13				5th			0 18			
13th		10.0	0 15				6th			0 3			
14th			0 31				27th			0 35			
15th			0 94								4 days	0 in.	60 1
16th			1 7				September-						1
17th			0 30				11th			0 44			
20th			1 54				13th			0 7			
21st		4.	2 30				14th			0 3			
28th			1 4				28th						
30th							20111			0 45			
			0 55				90+1			0 0			
			0 55				29th			0 6			
31st		,	0 55 0 72	10 3	10 in	27	29th 30th			$\begin{array}{ccc} 0 & 6 \\ 0 & 7 \end{array}$	C 1	1.	10
				13 days	10 in.	37 pts.	30th				6 days	1 in.	12 1
31st		'	0 72				30th October—			0 7	6 days	1 in.	12 ]
		'	0 72	13 days 51 days	10 in. 28 in.	37 pts. 28 pts.	30th October— 2nd	::		0 7 0 42	6 days	1 in.	12 ]
31st		'	0 72 ————————————————————————————————————				30th October— 2nd 14th	:		$ \begin{array}{c cccc} 0 & 7 \\ \hline 0 & 42 \\ 1 & 32 \end{array} $	6 days	1 in.	12 1
31st Total f		'	0 72				30th October— 2nd 14th 15th	::		0 7 0 42 1 32 0 35	6 days	1 in.	12 1
31st Total f	for ye	ar 19	0 72 26 1927.				30th October— 2nd 14th 15th 23rd			0 42 1 32 0 35 0 14	6 days	1 in.	12 ]
31st  Total f  nuary— 2nd		ar 19	0 72 26 1927. 0 28				30th October— 2nd 14th 15th 23rd 24th	:: :: ::		0 42 1 32 0 35 0 14 0 75	6 days	1 in.	12 ]
Total family and the state of t	for ye	ar 19	0 72 26 1927. 0 28 0 13				30th October— 2nd 14th 15th 23rd	::		0 42 1 32 0 35 0 14			
Total f  muary— 2nd 5th 18th	for ye	ar 19	0 72 26 1927. 0 28 0 13 4 12				30th October— 2nd 14th 15th 23rd 24th 25th	::		0 42 1 32 0 35 0 14 0 75	6 days	1 in.	
Total family and the state of t	for ye	ar 19	0 72 26 1927. 0 28 0 13				30th October— 2nd 14th 15th 23rd 24th	::		0 42 1 32 0 35 0 14 0 75			
Total f  muary— 2nd 5th 18th	for ye	ar 19	0 72 26 1927. 0 28 0 13 4 12				30th October— 2nd 14th 15th 23rd 24th 25th			0 42 1 32 0 35 0 14 0 75 0 59			
Total famuary— 2nd 5th 18th 19th	for ye	ar 19	0 72 26 1927. 0 28 0 13 4 12 0 91 1 3				30th October— 2nd 14th 15th 23rd 24th 25th November— 14th			0 7 0 42 1 32 0 35 0 14 0 75 0 59 0 22			
Total innuary— 2nd 5th 18th 19th 20th 21st	for ye	ar 19	26 1927. 0 28 0 13 4 12 0 91 1 3 0 73				30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th			0 42 1 32 0 35 0 14 0 75 0 59 0 22 0 13			
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Total 1  Total 1  Total 1  2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 29th bruary— 2nd 5th 6th	for ye	ar 199	0 72 26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 7 0 72 1 82 0 80 0 44	51 days	28 in.	28 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 28th 29th 30th December— 5th 8th 9th 12th 13th			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 days	3 in.	57 ]
31st  Total 1  muary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th	control of the contro	ar 199	0 72 26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7 0 72 1 82 0 80 0 80 0 10	51 days	28 in.	28 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 28th 29th 30th December— 5th 8th 9th 12th 13th 14th			0 7 0 42 1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0 0 7 0 18 0 40 0 15 0 10 0 75 0 94 0 75 0 14 0 95 0 95	6 days	3 in.	57 ]
Total f  muary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 26th 27th 29th bruary— 2nd 5th 6th 13th 22nd	for ye	ar 199	0 72 26 1927. 0 28 0 13 4 12 0 91 1 3 3 0 73 0 4 0 39 0 0 25 0 35 0 7 7 7 1 82 0 84 0 10 0 20	51 days	28 in.	28 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 29th 30th December— 5th 8th 9th 12th 13th 14th 14th 19th			0 7 0 42 1 32 0 35 0 59 0 22 0 13 0 7 0 94 1 0 0 7 0 35 0 35 1 37 0 94 1 0 0 7 0 35 0 35 0 35 1 37 0 94 1 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 days	3 in.	57 ]
31st  Total f  nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th	control of the contro	ar 199	0 72 26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7 0 72 1 82 0 80 0 80 0 10	51 days	28 in. 9 in.	28 pts. 42 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 28th 30th December— 5th 8th 9th 12th 13th 14th 14th 19th 20th			0 42 1 32 0 35 0 59 0 22 0 13 0 75 0 59 0 7 0 94 1 0 0 7 0 35 0 40 0 15 0 40 0 16	6 days	3 in.	57 ]
31st  Total 1  nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th 22nd 23rd	for ye	ar 199	0 72 26 1927. 0 28 0 13 4 12 0 91 1 3 3 0 73 0 4 0 39 0 0 25 0 35 0 7 7 7 1 82 0 84 0 10 0 20	51 days	28 in. 9 in.	28 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 29th 30th December— 5th 8th 9th 12th 13th 14th 19th 20th 21st			0 7 0 42 1 32 0 35 0 59 0 22 0 13 0 7 0 94 1 0 0 7 0 35 0 35 1 37 0 94 1 0 0 7 0 35 0 35 0 35 1 37 0 94 1 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 days	3 in.	57 ]
31st  Total 1  nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th 13th 22nd 23rd	 	ar 19	0 72 26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 35 0 7 0 72 1 82 0 80 0 44 0 10 0 10 0 10	51 days	28 in. 9 in.	28 pts. 42 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 28th 30th December— 5th 8th 9th 12th 13th 14th 14th 19th 20th			0 42 1 32 0 35 0 59 0 22 0 13 0 75 0 59 0 7 0 94 1 0 0 7 0 35 0 40 0 15 0 40 0 16	6 days	3 in.	57 ]
31st  Total 1  muary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 13th 22nd 2ard - 2nd - 2nd - 2nd	for ye	ar 19	0 72 26 1927. 0 28 0 13 4 12 0 91 1 30 73 0 40 0 25 0 35 0 7 0 72 1 82 0 80 0 44 0 10 0 20 0 25 0 36	51 days	28 in. 9 in.	28 pts. 42 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 29th 30th December— 5th 8th 9th 12th 13th 14th 19th 20th 21st			0 7 0 42 1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 0 40 0 40 0 62 0 22 0 0 55 0 75 0 75	6 days	3 in.	57 ]
31st  Total f  nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 13th 22nd 23rd atch— 2nd 3rd	 	ar 19	0 72 26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 35 0 7 0 72 1 82 0 80 0 44 0 10 0 10 0 10	51 days	28 in. 9 in.	28 pts. 42 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 28th 30th December— 5th 8th 12th 13th 14th 19th 22th 23rd 24th			$\begin{array}{c} 0  7 \\ \hline \\ 0  42 \\ 1  32 \\ 2  0  35 \\ 0  14 \\ 0  75 \\ \hline \\ 0  22 \\ 0  13 \\ 0  75 \\ 1  37 \\ 0  94 \\ 0  0  7 \\ \hline \\ 0  36 \\ 0  40 \\ 0  62 \\ 2 \\ 0  18 \\ 0  7 \\ \hline \\ 0  10 \\ 0  22 \\ 0  18 \\ 0  7 \\ \hline \\ 0  34 \\ 0  62 \\ 0  22 \\ 0  18 \\ 0  7 \\ \hline \\ 0  34 \\ 0  62 \\ 0  22 \\ 0  18 \\ 0  7 \\ \hline \\ 0  34 \\ 0  62 \\ 0  22 \\ 0  18 \\ 0  7 \\ \hline \\ 0  34 \\ 0  62 \\ 0  22 \\ 0  18 \\ 0  7 \\ 0  34 \\ 0  62 \\ 0  22 \\ 0  18 \\ 0  7 \\ 0  34 \\ 0  62 \\ 0  22 \\ 0  18 \\ 0  7 \\ 0  34 \\ 0  62 \\ 0  22 \\ 0  18 \\ 0  7 \\ 0  34 \\ 0  62 \\ 0  22 \\ 0  8 \\ 0  7 \\ 0  34 \\ 0  62 \\ 0  35 \\ 0  34 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0  62 \\ 0$	6 days	3 in.	57 ]
31st  Total 1  muary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 13th 22nd 2ard - 2nd - 2nd - 2nd	for ye	ar 19	0 72 26 1927. 0 28 0 13 4 12 0 91 1 30 73 0 40 0 25 0 35 0 7 0 72 1 82 0 80 0 44 0 10 0 20 0 25 0 36	51 days	28 in. 9 in.	28 pts. 42 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 28th 29th 30th December— 5th 8th 9th 12th 13th 14th 19th 20th 23rd 24th 25th			0 7 0 42 0 35 0 14 0 7 0 59 0 59 0 22 0 13 0 75 1 0 94 1 0 0 7 0 35 0 18 0 40 0 62 0 22 0 34 0 66	6 days	3 in.	57 ]
31st  Total f  nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 13th 22nd 23rd atch— 2nd 3rd	for ye	ar 19	0 72 26  1927. 0 28 0 13 4 12 0 91 1 3 3 0 4 0 39 0 0 25 0 35 0 7 0 7 0 28 0 80 0 44 0 10 0 20 0 56 0 13 0 9 0 30	51 days	28 in. 9 in.	28 pts. 42 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 28th 30th December— 5th 8th 12th 13th 14th 19th 22th 23rd 24th			0 7 0 42 1 32 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 0 7 0 35 0 18 0 40 0 15 0 62 0 22 0 18 0 35 0 7 0 35 0 7 0 35 0 14 1 0 7 0 7 0 35 0 14 1 0 7 0 35 0 14 1 0 7 0 1 0 7 0 1 0 0 7 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 0 1 0 1 0 0 0 0 1 0 1 0 0 0 0 0 1 0 1 0 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 days	3 in. 4 in.	57 1
31st  Total 1  muary— 2nd 5th 18th 19th 20th 21st 22nd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th 22nd 23rd 4th 5th 6th	for ye	ar 19	0 72 26  1927. 0 28 8 0 13 4 12 0 91 1 3 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7 0 72  1 82 0 80 0 44 0 10 0 0 0 56 6 0 0 5 6 6 0 0 30 0 7	51 days	28 in. 9 in.	28 pts. 42 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 28th 29th 30th December— 5th 8th 9th 12th 13th 14th 19th 20th 23rd 24th 25th			0 7 0 42 0 35 0 14 0 7 0 59 0 59 0 22 0 13 0 75 1 0 94 1 0 0 7 0 35 0 18 0 40 0 62 0 22 0 34 0 66	6 days	3 in. 4 in.	57 1
31st  Total f  muary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th 22nd 23rd vch— 2nd 3rd 4th	for ye	ar 19	0 72 26  1927. 0 28 0 13 4 12 0 91 1 3 3 0 4 0 39 0 0 25 0 35 0 7 0 7 0 28 0 80 0 44 0 10 0 20 0 56 0 13 0 9 0 30	51 days	28 in. 9 in.	28 pts. 42 pts.	30th October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th 20th 29th 30th December— 5th 8th 9th 12th 13th 14th 19th 20th 22th 25th 25th			0 7 0 42 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 0 94 1 0 0 7 0 35 0 18 0 40 0 62 0 22 0 0 34 0 66 1 82	6 days	3 in. 4 in.	57 д

ROSEBA				RECORD		inued.		Date	ere US		Rainfa In. Pt		Total.	
	DAL	LY KA		L—continu	ea.			June—			JIE ST			
			1928					6th			0 18			
Date.			Rainfa	ill.	Total.			13th			0 42			
			In. Pt	S.				14th			0 69			
January-														
			0 3					20th			0 18			
9th .								21st			0 7			
11th			0 28					24th			0 25			
13th			0 50					25th			0 42			
16th			0 47					26th			0 27			
17th			0 9								0 50			
18th			0 11					29th						
20th			1 25					30th			0 15	40.7		10 1
25th			0 5									10 days	3 m.	13 pts
			0 5					July—						
26th								17th			0 25			
27th			0 4					25th			0 16			
28th			0 50									2 days	0 in.	41 pts
29th			0 13					August-						
30th			0 24								Nil.			
31st			1 16					September-						
0181				14 days	4 in	90 p	ets.	13th			0 10			
				11 days		P				4.0		1 day	0 in.	10 pts
February—								October-						1.0
			0 0-					16th			0 4			
1st			0 25					19th			0 11			
6th			0 76				177-							
7th			0 6					28th			0 17	0 1	0 .	20
8th			1 28				1	N			-	3 days	0 in.	32 pts
9th			0 50					November—			(1)			
10th			1 33					2nd		11	0 10			
11th	m.; ,	gri li	0 34					6th			1 94			
								13th			0 8			
12th			0 23					20th			0 65			
15th			4 94											
17th			1 95					23rd			0 7	5 Jane	0 :	01
19th		٠	1 68					Dagamban				5 days	2 111.	84 pts
20th			0 39					December—						
21st	1		0 22					4th			0 9			
			0 16					5th			0 23			
22nd								8th			0 97			
23rd			0 80					19th			0 4			
24th			0 33					20th			1 0			
25th			0 4											
26th			1 80					22nd			0 4			
27th			0 24					23rd			0 2			
29th			0 8					24th			0 24			
		-	Mary All The Control	20 days	17 in.	38 p	ts.	25th			0 35			
								31st	100		0 14			
March—												10 days	3 in	12 pts
1st			0 20											1= p.o
			0 27					Total	for ye	ar 19	28	85 days	45 in.	21 pts
2nd	• •													1.00
3rd			0 13											
6th			0 17								1929			
7th			0 4					January-						
28th			0 9					12th			1 30			
			0 12					20th			6 20			
29th								21st			3 11			
30th			0 30		1 :	32 p	to	23rd	*		0 6			
				8 days	1 111.	92 P	15.							
								25th			0 20		10 .	0.7
April—								D-1				o days	10 in.	S7 pts
3rd			0 10					February—						
			0 5					7th			0 32			
4th			0 3					8th			2 18			
4th								9th			0 16			
7th			0 7					10th	0		0 10			
7th 16th	4.1		0 22											
7th	4.4							11th			0 10			
7th 16th 18th			0 89					12th			0 83			
7th 16th 18th 19th														
7th 16th 18th 19th 20th			4 8					17th			0 61			
7th 16th 18th 19th 20th 21st		• • • • • • • • • • • • • • • • • • • •	$\begin{array}{cc} 4 & 8 \\ 0 & 93 \end{array}$					17th 18th			0 61			
7th 16th 18th 19th 20th			4 8 0 93 2 94					18th			0 39			
7th 16th 18th 19th 20th 21st 22nd		• • • • • • • • • • • • • • • • • • • •	$\begin{array}{cc} 4 & 8 \\ 0 & 93 \end{array}$					18th 20th			0 39 1 88	3		
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7th 16th 18th 19th 20th 21st 22nd			4 8 0 93 2 94		11 in.	35 1	ots.	18th 20th			0 39 1 88			
7th 16th 18th 19th 20th 21st 22nd 23rd			4 8 0 93 2 94 2 0		11 in.	35 [	ots.	18th 20th 21st 22nd			0 39 1 88 4 29 1 10	3		
7th 16th 18th 19th 20th 21st 22nd 23rd 24th			4 8 0 93 2 94 2 0		11 in.	35 I	ots.	18th 20th 21st 22nd 23rd			0 39 1 88 4 29 1 10 1 19	3		
7th 16th 18th 19th 20th 21st 22nd 23rd			4 8 0 93 2 94 2 0	11 days		35 µ		18th 20th 21st 22nd			0 39 1 88 4 29 1 10	3 3 9 9	s 13 in.	20

#### Appendix E.

#### UPPER BURNETT AND CALLIDE LAND SETTLEMENT AREA:

WATER FACILITIES PROVIDED IN TERMS OF "THE UPPER BURNETT AND CALLIDE LAND SETTLEMENT ACT OF 1923."

Name of Selector.		Portion.	Parish.		Area.	Cost of Bore or Well.	Cost of Bore or Well charged to Selector.	Cost of Equipment (charged selector).
ar breverier de L. 14	7.6	100	D	No.	A. R. P.	£ s. d.	£ s. d.	£ &. d.
E. N. Johnson		136 130 and 130A	Prairie .		366 1 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	168 11 11
A. J. Mack		141	Bailey .		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	53 12 2 180 15 7	$\begin{bmatrix} 53 & 12 & 2 \\ 180 & 15 & 7 \end{bmatrix}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
E. J. Power		11	ditto . Cannindah .		$\frac{496}{316}  \frac{3}{2}  0$	42 6 6	42 6 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
D. D. Spicer		22	D		188 3 0	87 16 10	87 16 10	165 0 4
F. Spencer	::	23	ditto .		195 2 20	66 10 3	66 10 3	
T. G. Iredale		53	ditto .		283 2 33	57 16 8	57 16 8	
T. J. Malone	1.1	138	Bailey .		430 2 30	51 0 7	51 0 7	115 11 0
J. C. Malone		133 and 133A	ditto .		338 0 20	35 15 3	35 15 3	123 8 5
P. G. Tollemache		56	Scoria .		171 0 20	43 11 10	43 11 10	161 17 10
F. A. Tollemache		55	ditto .		168 0 0	60 12 0	60 12 0	160 0 6
A. O. Gehrke		25	Kooingal .	-	160 0 0	64 2 0	64 2 0	141 11 1
D. S. Malone		139 13			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	65 10 1 Nil. failure.	Total In the same
J. Packham		10	Cannindah .		231 0 20	102 6 6	102 6 6	171 16 10
T D Digney		24	ditto .		509 2 10		44 12 3	119 18 10
T. P. Rigney		83	D T		293 0 0		56 9 9	123 14 6
W. G. Landgren		59 and 59A	1244		214 0 20	158 0 9	158 0 9	
E. D. Spletter		28	1244		223 3 0		67 16 7	161 18 7
A. H. Adams		42			239 2 10		189 19 9	181 0 10
H. A. L. McKean		29			225 3 0		78 18 2	133 11 10
H. S. Spencer		58	D 'I		167 2 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	137 15 6
H. S. Kelly		$\frac{25}{203}$			229 2 20 170 2 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
J. A. Coster		134 and 134A	D '1		334 0 20		Nil, failure.	
T. Malone		101 and 104A	Daney .		001 0 20	44 16 3	44 16 3	
T. G. Cameron		120	Spier .		484 3 10	83 11 9	83 11 9	156 5 3
J. P. Cronin	7	149	D		509 1 (		43 0 9	139 12 6
B. C. P. Waine	. 2	137	ditto .		366 2 0		41 0 6	160 17 4
H. C. Exeter		34			272 0 20		35 16 3	187 4 7
F. O. W. Burchardt		41			195 0 20 214 2 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	117 14 11
H. E. Feldhahn		17	0		214 2 0 173 1 0		101 3 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
T. McLennan		54 40	D		190 0 0		31 19 11	152 18 3
W. C. Paroz		41	a ·		221 2 10		87 0 0	138 6 5
G. B. Showery A. G. T. Bate		97	D. '1		259 1 (		35 7 4	155 10 1
G. E. Hodgetts		43	Ct ·		225 2 30		83 4 6	-4.17
A. A. Russell		19	Ci		183 0 0		75 13 7	146 14 11
M. Behrendorff		16	Prairie .		411 2 20		76 7 8	152 8 9
W. N. Perry		46			453 1 30		30 2 2 59 19 6	195 10 4
E. W. Russell		22 54			165 3 20 296 1 29		100 16 9	135 18 4
H. J. Stone		85	D 11		268 3		33 19 0	140 6 8
T. Payne G. R. Cox		98	1:00			26 9 5	26 9 5	
B. Russell		21	G .			9 49 3 1	49 3 1	138 10 4
A. H. Russell		23				55 14 5	55 14 5	
R. A. Tognolini		33			210 2 30		87 3 4	186 9 8
E. A. Russell		20			182 2 848 2 2		59 0 3 106 5 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C. F. V. Schmidt		26 27	D '1			111 16 7	111 16 7	
E. J. Basson		150	m · · ·		187 3		89 5 10	
W. Cronin		132 and 132A	D 1		118 3 1	39 18 0	Nil, failure.	probability of the
A. C. Morante		ALIE MILES				73 14 9	73 14 9	
W. H. E. L'Estrange		48			393 2 3		87 19 0	165 9 8
T. P. O'Donovan		84				$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	40 18 1 72 12 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
L. J. Russell		181	0.7			$\begin{bmatrix} 72 & 12 & 10 \\ 59 & 1 & 1 \end{bmatrix}$	59 1 1	219 6 4
H. J. Walter		48 14	100	• •		75 10 5	75 10 5	143 18 5
H. B. Ridge		5		::	482 1 3		135 11 1	clar. A. A. II
J. F. King		19	D		229 1 2	0 79 17 0	79 17 0	140 1 1
J. H. Behrendorff A. A. F. Bainbrigge		179	3'11		336 2 3		121 7 4	172 18 3
T. O'Brien		68	ditto			0 83 3 0	83 3 0	143 16 1
T. J. Anderson		21			201 3 2		82 6 9 87 4 2	
H. E. A. L'Estrange		45			$\begin{array}{cccccccccccccccccccccccccccccccccccc$		87 4 2 70 13 7	145 3 8
M. Van Itallie		24	Prairie			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	70 8 9	
T. A. Blackburn		12	1	• •		0 88 19 0	88 19 0	
N. H. Robertson		174 17				0 66 13 4	66 13 4	139 6 11
A. E. Baldwin		12	3511		313 2 2	0 43 11 0	43 11 0	
H. F. Kaden		124 and 124A	D 11			0 92 0 1	Nil, failure.	The state of
D. J. Hanvin			Fr. British	-	-01	44 0 0		179 15 4 164 19 8
R. Evans		58				0 95 18 11	95 18 11 70 3 8	164 19 8 132 15 8
C. J. Cluff		76				$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		132 10 8
B. Cavanagh		125 and 125A	T			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		170 14 0
T. Hungerford		140				0 383 5 10		211 6 9
J. J. M. Davidson		105				0 73 2 6		196 2 2
S. Esposito and V. Za	-	34	01 1	::		0 65 9 8	65 9 8	138 16 11
J. W. Harris		116	T 13		25 1 2	6 55 18 6	55 18 6	162 10 5
						0 00 10 7	00 10 7	
D. J. Hanvin, junr H. D. O'Beirne		137 and 137A	ditto			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		193 16 7

# Appendix E—continued. UPPER BURNETT AND CALLIDE LAND SETTLEMENT AREA—continued.

Name of Sel	ector.		Portion.	Parish.	Area.	Cost of Bore or Well.	Cost of Bore or Well charged to Selector.	Cost of Equipment (charged Selector).
					A. R. P.	£ s. d.	£ s. d.	£ s. d.
J. T. Cluff			147	Bailey .	. 313 0 0	90 6 10	90 6 10 41 1 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C. R. Ridgway			115	ditto .	00 0 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	37 15 4	131 16 8
N. J. Ridgway			114	ditto . Bundalba .	204 2 0	219 4 3	219 4 3	221 10 11
J. Cooper T. Daft			55 20	Coppin .	909 0 0	53 2 6	53 2 6	136 19 9
J. Fraser		::	130	ditto .	941 0 0	48 17 4	48 17 4	153 15 2
T. H. Harrison			129	ditto .	. 343 2 0	33 1 1	33 1 1	163 16 0
J. K. Mouatt			4	Clonmel .		49 2 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	147 2 7
G. Robertson			53	Bundalba .		134 3 6 98 15 10	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
A. D. Cook			49	Scoria . Prairie .	200 1 0	92 17 8	92 17 8	194 13 8
J. H. Ninness F. W. Boon			90 29	Scoria .	170 9 0	61 18 11	61 18 11	Prusile I. sury
W. J. Green		::	50	Bundalba .	200 2 0	48 19 7	48 19 7	MI A. T. CHOTH
A. Chandler			17	Prairie .	397 0 0	338 15 9	264 9 0	
F. W. Hardwick			13	Scoria .		74 16 7	74 16 7 98 15 0	139 19 7
W. B. Stephens			27	Prairie .		98 15 0 87 17 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	137 7 0
A. Grant			$\begin{array}{c} 15 \\ 24 \end{array}$	Scoria .	100 9 90	90 2 0	90 2 0	145 7 9
J. W. Kurtz A. H. Morrison		• •	94	ditto . Bailey .	101 1 20	55 14 1	55 14 1	139 12 11
F. L. Manthey		::	55	Prairie .	216 1 11	65 6 4	65 6 4	
M. McInerney			200	ditto .	160 0 30	112 12 9	112 12 9	138 3 8
W. H. Prior			166	Selene .		219 18 7	219 18 7	176 4 2
A. H. Bulow			103	ditto .	010 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	192 0 5 145 18 3
C. F. Goode			89	Bailey .	00 0 00	63 14 5 38 11 6	38 11 6	140 18 3
E. D. Byrne F. D. Elliott			110 36	ditto . Prairie .	016 0 0	177 12 2	177 12 2	168 1 4
T. Martin		::	104	ditto .	207 2 20	147 13 9	147 13 9	185 10 0
D. Nicholson			67	Bailey .	291 0 0	73 12 11	73 12 11	151 9 1
F. N. Walker			37	Prairie .	223 2 20	47 18 2	47 18 2	124 10 10
A. McDermid			63 and 63A	Bailey .	228 2 10	73 16 4 89 19 9	Nil, failure. 89 19 9	173 17 10
T. II. Dobnordonff			20	Prairie .	211 0 30	50 7 11	50 7 11	139 5 9
L. H. Behrendorff L. Harold			129	ditto .	000 9 00	123 9 9	123 9 9	193 6 2
F. C. Rideout		::	67	ditto .	00= 0 00	83 3 9	83 3 9	94 9 0
R. S. Sutton			47	Spier .	070 0 0	146 9 2	Nil, failure.	T. C. Brende
				a par		64 3 1	64 3 1	140 7 4
C. A. A. Timm			52	Prairie .		66 16 .8	66 16 8	tures il. Th
H. H. C. Patullo			$\frac{201}{34}$	ditto .	100 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	139 8 3
J. Maguire L. A. Walsh			16	Scoria .	107 0 0	94 1 11	94 1 11	139 8 3
B. Maguire			37	ditto .	200 2 20	102 19 2	102 19 2	144 11 1
B. J. Timm			35	Prairie .	200 2 0	81 0 7	81 0 7	132 17 9
J. M. Hickey	1.01		157	ditto .		171 8 10	171 8 10	Transfer Fr 31
H. Chapman			24	Kooingal .		107 6 1	107 6 1	155 9 1
A. Jones			93 and 93A	Spier .	007 0 00	102 18 5	102 18 5 24 19 10	151 17 0
P. Moore J. Peace			17	Bailey . Scoria .	177 9 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	200
J. Peace J. V. Ryan			128 and 128A	Bailey .	010 1 4	83 2 2	83 2 2	1
A. E. Balchin			60	Scoria .	100 0 0	246 1 5	114 1 6	189 14 8
H. Houreld			17	Coppin .	295 3 0	230 0 4	Nil, failure.	Drospid -/ I
G 77 34			0.0	D 1	244 0 0	51 16 4	51 16 4	190 14 8
S. H. Moore			96 58	Bailey .	007 1 0	55 3 0	55 3 0	100 10 0
T. Coulson A. S. Meharry		::	30	Coppin .	005 0 0	90 12 1 65 16 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	199 19 2 140 11 3
R. M. Boon			30	Scoria .	000 2 0	66 4 11	66 4 11	125 5 9
A. N. Short			19	Tellebang .	161 0 90	666 5 4	300 0 0	357 10 7
G. K. Stewart			136	Bailey .	809 0 0	67 18 10	67 18 10	162 14 8
P. Miller			. 116	Prairie .	077 0 0	85 3 7	85 3 7	163 18 1
H. H. Mathison F. I. Ninness			81 93	Coppin . Prairie .	0.00 0 0	44 9 1	44 9 1	145 14 2
G. W. Naldrett			90	Chambia	007 7 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	35 3 10
F. Randall			49	Bundalba .	011 0 0	69 19 2	69 19 2	206 16 0
R. O. Marshall			60 and 60A	Bailey .	000 0 0	63 12 11	63 12 11	146 14 9
G. B. Mouatt			5	Clonmel .	591 1 0	38 5 6	38 5 6	201 1 0
J. Hill	1		39	Kooingal .		43 10 1	43 10 1	142 17 11
R. W. Rimmer			49 22	Clonmel .		40 3 3	40 3 3	138 17 10
E. D. M. Jackson A. H. Williams			65	Clonmel . Don		47 13 1	47 13 1	141 18 1
13, 11, 11 minums			00	Don	. 319 2 20	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Nil, failure.	
						103 6 5 147 18 4	Nil, failure. 147 18 4	Market U.S.
T. E. Lord	0.06		124	Selene .	. 227 3 20	137 5 6	137 5 6	173 15 9
P. Ashton			8	ditto .	. 343 1 10	136 16 3	136 16 3	201 2 3
G. R. Anderson			91	Prairie .		67 4 2	67 4 2	217 14 8
H. J. Thompson			8	Coppin .	. 291 2 0	228 7 3	Nil, failure.	
A. J. Petersen			40	Earlsfield .	222 0 0	55 16 8	55 16 8	207 19 6
J. Taylor			108	Daniel		42 0 4	42 0 4	188 7 - 5
G. J. Brock			169	Bundalba .		193 13 10 238 14 6	153 14 0 238 14 6	224 7 2
P. Kennedy			21	Earlsfield .	000 0 0	39 15 6	39 15 6	224 1 6
A. Schunemann	T		197	Prairie .	. 304 1 20	77 11 11	77 11 11	
R. Fulloon	1		25	Clonmel .	. 880 3 0	53 12 10	53 12 10	
J. Higgin			$\frac{120}{124}$	Bailey Prairie		341 7 7	178 2 9	164 16 0
G. Weston			144	Prairie .	. 196 0 0	86 14 6	86 14 6	

## UPPER BURNETT AND CALLIDE LAND SETTLEMENT AREA—continued.

Name of Selector.		Portion.	Parish.	Area.	Cost of Bore or Well.	Cost of Bore or Well charged to	Cost of Equipment (charged
The second second second		THE STREET	MANAGE TO SERVICE STATE OF THE	4 1		Selector.	Selector).
II N Inne		32	G	A. R. P. 206 2 0	£ s. d.	£ s. d.	£ s. d.
H. N. Jones		25	Scoria Prairie	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	138 14 5
J. H. Ralph		113	Earlsfield	252 2 0	87 9 3	87 9 3	142 7 8
E. F. Schunemann		195	Prairie	304 2 10	38 8 2	38 8 2	147 2 2
G. C. Green		22 72	Coppin	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	131 8 7 40 12 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	85 17 6
J. Blaney J. McNamara		161	Priarie	242 3 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	197 6 8
S. Ogle		18	Bailey	255 2 10	413 0 8	400 0 0	
Q. F. Bleys		77	ditto	470 0 0	75 15 11	75 15 11	131 6 6
J. B. Loginoff		3	Kroombit	276 0 0	70 13 8	70 13 8 115 19 4	139 18 9
A. Baldwin		16 156	Cannindah Prairie	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	115 19 4 29 14 11	115 19 4 29 14 11	143 9 8
F. Graham		4	Bailey	219 0 10	237 6 7	237 6 7	143 3 8
A. Evans		21	Kroombit	443 0 0	58 4 3	58 4 3	
A. G. Dougall		16 122	Coppin	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	47 15 1 41 17 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
M. McGee G. V. N. Gooch		50	Bailey Clonmel	360 3 0	40 10 4	40 10 4	130 3 2
E. A. Ewald		122	Prairie	200 0 0	68 15 5	68 15 5	130 3 2
G. W. Nicholson		175	ditto	319 3 30	71 4 5	71 4 5	179 8 0
R. E. Chetter		18	Spier	250 1 30 186 1 0	90 13 1 41 3 3	90 13 1	155 4 6
J. F. Simpson K. G. Banks		62 95	Scoria Bailey	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	41 3 3 74 12 8	41 3 3 Nil, failure.	144 4 10
K. G. Banks		00			219 5 10	219 5 10	
P. J. Meagher		78	ditto	471 0 0	59 7 0	59 7 0	
J. Gillies		134	Earlsfield	189 2 0 334 0 20	88 17 6	88 17 6 61 18 5	171 0 0
J. McInnes		93 20	Coppin Kooingal	210 3 0	61 18 5 43 12 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
J. Logan		11	Bailey	236 2 0	495 11 11	300 0 0	200 2 10
A. Millard		24	Clonmel	486 0 0	43 12 2	43 12 2	131 9 9
C. W. Anders		121	Prairie	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	233 9 4 80 14 7	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	206 5 7
G. C. F. Staatz C. Beaton		46 23	Coppin	399 0 0	53 15 7	53 15 7	206 5 7
J. B. Higgins		14	Spier	237 3 10	72 6 0	72 6 0	134 8 8
E. Wells		66	Coppin	342 0 0	71 7 9	71 7 9	155 2 9
C. O. Brown		115 54	Prairie	254 2 20 312 0 0	209 18 1 35 7 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
A. Kung N. W. Smith	::	6	Clonmel	598 3 0	56 2 3	56 2 3	***
E. Hall		90 and 90A	Bailey	. 241 3 0	54 1 5	54 1 5	145 6 4
W. A. Gray		123	Prairie	187 2 0 517 3 0	41 19 10 42 16 3	41 19 10 42 16 3	212 19 9
A. Fraser T. V. W. Newton		82 94	Coppin Prairie	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	78 3 10	78 3 10	188 10 5
P. M. Sheehan		7	Cannindah	496 2 20	47 12 6	47 12 6	8
M. Wynne		8	Kroombit	373 3 20	60 15 3	60 15 3	149 14 11
G. H. Ezard		152	Prairie	546 1 0 302 0 20	60 17 6 43 1 5	60 17 6 43 1 5	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
G. Spence D. Gorman		64	Coppin	293 1 0	121 2 1	121 2 1	237 13 10
H. M. Baynton		28	Kooingal	159 2 20	50 1 6	50 1 6	Kings III
J. Byrne		119	Selene	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	319 14 3	319 14 3 54 4 10	266 11 7
J. W. Woods		37	Spier Coppin	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	54 4 10 95 14 2	95 14 2	153 2 8
G. A. Elliott		151	Prairie	252 3 20	73 6 7	73 6 7	
W. Wilson		10	Coppin	267 2 20	78 3 5	78 3 5	
T. W. Robinson and I	Е. Н.	102	Selene	195 3 0	148 2 9	148 2 9	238 18 11
Robinson		138	Prairie	402 2 0	49 0 4	49 0 4	221 13 9
N. S. King		192	ditto	496 2 0	85 16 5	85 16 5	183 4 7
A. T. Lynn		101	Selene	202 0 0	155 12 4	155 12 4 68 10 10	164 14 11
J. M. Brady		119 42	Spier Cannindah	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	68 10 10 70 13 11	68 10 10 70 13 11	164 14 11
G. King, junr		8	Cannindah	321 0 4	45 19 8	45 19 8	
L. J. Cook		43	Coppin	384 0 0	42 10 2	42 10 2	192 7 1
C. Cuff		5	ditto	302 2 0	79 2 1 67 18 5	79 2 1 67 18 5	209 16 8
H. C. Hansen		81	Bailey	278 0 0 601 0 0	77 9 5	77 9 5	
M. T. Jubb		191	Clonmel	579 3 0	48 5 5	48 5 5	
F. G. Dahtler P. J. Hughes		20	Selene	899 2 0	94 15 4	94 15 4	
A. P. Woodford		89	ditto	262 3 20	148 9 4 201 12 8	148 9 4 201 12 8	
J. W. Piggott		24	Bailey Prairie	228 2 0 304 1 20	201 12 8 93 11 1	93 11 1	
S. McCarthy		196 144	ditto	733 0 0	224 11 0	Nil, failure.	
R. Hardwick		147			113 2 8	Nil, failure.	
			C1 1	694 1 0	249 4 6 49 7 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
F. G. Dahtler, junr		15	Clonmel	694 1 0 316 0 20	273 15 8	273 15 8	
H. Kent		100 118	Coppin Prairie	171 2 0	60 0 9	60 0 9	
H. G. Waine	::	145	Bailey	368 1 0	78 14 6	78 14 6	100 14 0
W. T. W. Neill		37	Earlsfield	192 3 0 317 0 0	Provided	own facility.	188 14 0 130 4 7
F. D. Behrendorff		18	Prairie	317 0 0 304 1 10	235 16 7	235 16 7	130 4 7
G. W. Taylor		199 32	Prairie Kooingal	180 2 7		51 14 5	
A. C. Baynton		02					1,07401.0

## UPPER BURNETT AND CALLIDE LAND SETTLEMENT AREA—continued. COMMON WATER SUPPLIES.

Name of Selector.		Portion.	Parish.		A	rea.		Cost	of B Wel		char	Wel	to	Cos Equi (ch: Sele	pme	d	
	9.1					Α.	R.	P.	£	8.	d.	£	8.	d.	£	8.	d
J. H. Daly D. Chapman J. Emery A. B. Horn		::	7 6 45 46	Bailey ditto ditto		217 226 169 169	1 0 1	$\begin{array}{c} 1 \\ 0 \\ 20 \\ 0 \end{array}$	298	11	9	298	11	9	482	9	4
J. W. Fleming J. P. Fleming	::		133 134	Prairie ditto		541 373	3	$\frac{37}{21}$	57	15	8	57	15	8	269	11	2
W. H. White F. Holzl S. Woolley	::	::	108 107 17	Selene ditto Bailey		160 154 250	3 2		}166	12	1	166	12	1	100		
A. N. Lennox M. Kannar F. O. Griffith	::	::	10 34 35	ditto ditto ditto		238 232 240	1	39 10 10	497	15	8	497	15	8	Not plete	ed.	n
V. J. Evans		::	105 103	Coppin · ditto	::	323 315	0 0		$\begin{cases} 150 \end{cases}$	0	0	150	0	0	Not	cc	m

## Appendix F.

#### UNSUCCESSFUL BORES.

Name o	of Sele	ector.			Portion.	Parish.		Area.	Cost	of Bore.
E. J. McKenzie		6.5	1 year		119	Bailey		A. R. P. 333 3 0	43 43 16	37 1 2 35 9 7
F. C. Smith J. Packham			11:	1::	129 13 132 and 132A	Selene Cannindah Bailey		$\begin{array}{cccc} 214 & 3 & 20 \\ 251 & 0 & 20 \\ 118 & 3 & 10 \end{array}$	17	
T. Malone R. P. Johnson				::	132 and 132A 134 and 134A 99	ditto Prairie		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	.15	21 10 0 12 14 10
J. P. Fleming		un lite i se so sel			134	ditto		373 0 21	14	14 19 10 95 12 9 82 3 4
J. Errington D. J. Hanvin		::		::	117 124 and 124A 63 and 63A	Selene Bailey ditto		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
A. McDermid A. H. Williams	::	hiir		alu (17)	65	Don		319 2 20	20	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
B. R. Thompson H. Houreld	::				162 17 122	Prairie Coppin		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C. G. Skinner W. B. Stephens R. S. Sutton			***		121 121 47	Spier ditto		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	18 9 4 46 9 2
K. G. Banks H. J. Barnes					95 139	Bailey Prairie	1010	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1	74 12 8 70 8 7
R. Hardwick			, u		144	ditto		733 0 0	2	83 19 10 24 11 0 13 2 8
H. J. Thompson J. Johnson	.:		.:	::	8 94	Coppin Earlsfield		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	28 7 3 66 19 10
J. H. Hutton C. G. Skinner		20:50	::	::	24 122 11	Spier Coppin	4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	$68  5  11 \\ 91  11  6 \\ 67  3  5$
J. Curgenven M. J. Kindleysides	::				2	Kroombit		452 1 30		63 13 5

## UNSUCCESSFUL BORES.

REASONS WHY B	ORES DE	CLARED F	AILURES.
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	EASONS WHY BORES DECLARED FAILUR	RES.
F. C. SMITH	nly 10 gallons per hour obtained at 31	
E. J. McKENZIE	ore sunk to depth of 486 ft. and flow Selector claimed supply insufficient Irrigation, bore declared a failure.	of about 65 gallons per hour obtained.  and, on advice of Commissioner of
E. J. McKENZIE (No. 2 Site	oring difficulties met with at 190 ft. (strands of torn casing). Site abandoned.	
H. HOURELD	wenty-four gallons per hour obtained, hard and difficult to penetrate. Both	re abandoned.
B. R. THOMSON	stock, but too hard and saline to b the meantime casing withdrawn by	e classed as a good stock water." In
J. ERRINGTON	test bore was sunk in the locality. bore beyond the 300-ft. level. In this selection. No further action w	Good supply was struck in this test he meantime selector had surrendered
C. G. SKINNER	epth 350 ft. Very hard stratum (basalt	and boulder formation) met with.
C. G. SKINNER and W. STEPHENS	from the fine sand. Bore sunk to water struck. Strata very hard;	sand. Water could not be separated 601 ft. 6 in., but no further supply of core abandoned.
A. H. WILLIAMS	epth 292 ft., impenetrable stratum met	with. Site abandoned for substituted

one.

A. H. WILLIAMS (No. 2 Site) Depth 266 ft. Similar stratum as in first bore; site abandoned.

A. C. MORANTE .. Depth 111 ft. Supply 800 gallons per hour. Suitability of water for stock doubtful. Declared a failure.

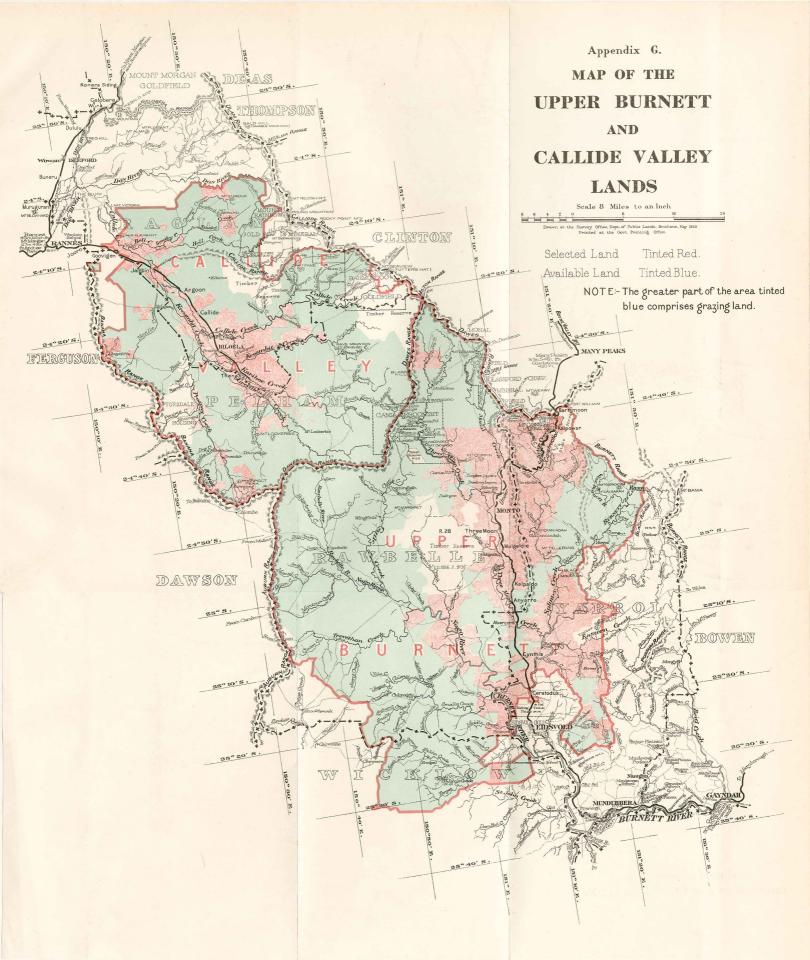
## UNSUCCESSFUL BORES—continued.

## REASONS WHY BORES DECLARED FAILURES—continued.

TV.	EASONS WHY DORES DECLARED PAILURES COMMISSION
D. J. HANVIN	. A supply of water struck at 197 ft. Very bitter and useless.
A. McDERMID	. Three hundred and sixty gallons per hour of good water obtained in fine silt stratum. Unable to separate silt from water. Site abandoned for substituted one.
T. MALONE	. Two hundred and fifty gallons per hour obtained at 300 ft. Suitability of water for stock doubtful. Declared a failure.
R. P. JOHNSON	. Well 60 ft. Small soakage met with at that depth. Portion forfeited. To be deepened by boring when portion reselected.
R. S. SUTTON	Fifty gallons per hour met with at 253 ft. Supply inadequate. Deepened to 300 ft.; stratum soapstone. Site abandoned for substituted one.
K. G. BANKS	. Depth 100 ft. 6 in. Boulders met with. Site abandoned for substituted one.
H. J. BARNES	. Very hard stratum met with; depth 99 ft. 3 in
H. J. BARNES (No. 2)	. Depth 175 ft. 3 in.; stratum granite.
J. H. HUTTON	. Depth 612 ft.; stratum shale and limestone with layer of basalt. Site abandoned.
R. HARDWICK	Depth 97 ft. Hole crooked, preventing further sinking. Abandoned for substituted site.
R. HARDWICK (No. 2)	Depth 40 ft.; very hard stratum. Too costly to penetrate.
H. J. THOMPSON	Drill lost in bore hole at 297 ft. Efforts to recover unsuccessful. Site had to be abandoned and another located.
J. JOHNSON	Forty gallons per hour obtained at 610 ft. Water flowed over top of casing although only standing a test of 40 gallons per hour. Bore deepened to 630 ft., but supply not increased. Bore abandoned; supply insufficient.
M. J. KINDLEYSIDES .	Two hundred gallons struck at 140 ft. in seam of fine sand. Impossible to finalise bore, as seam of sand was between slippery-back clays, choking water off. Water shut off and sinking continued. At 207 ft. 15 gallons per hour was obtained, and bore was continued to 345 ft. without striking further supply.
J. CURGENVEN	Depth 235 ft. Site abandoned owing to failure to remove obstruction—part of sinker bar and drill—in the hole. Small stream of 53 gallons per hour was met with at 87 ft., and drilling was continued to 235 ft. when driller had misfortune to loose tools in hole.
J. PACKHAM	Depth 118 ft. Exceptionally hard and difficult strata met with in bottom of bore. New site located.
J. P. FLEMING	Depth of facility, 300 ft.; well, 80 ft.; bore in bottom of well, 220 ft. Selector would not agree to further sinking. Site abandoned for substituted one.
J. P. FLEMING (No. 2)	Small stream of 10 gallons per hour struck at 235 ft. Prospects for better supply at greater depth appeared to be good. Granite struck at 380 ft. Boring continued to 390 ft. New site located.
J. P. FLEMING (No. 3)	Depth 108 ft. At 108 ft. no prospects of obtaining a supply at a greater depth. Site abandoned.

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